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U. S. DEPARTMENT OF THE INTERIOR
PROTOTYPE OIL SHALE LEASING PROGRAM

OIL SHALE TRACT C-b
DEVELOPMENT MONITORING REPORT #7
(May 1981 through November 1981)

Submitted to:

Mr. Peter A Rutledge
Deputy Conservation Manager - Oil Shale
Conservation Division
U. S. Geological Survey
Grand Junction, Colorado

By:

CATHEDRAL BLUFFS SHALE OIL COMPANY

TENNECO SHALE OIL COMPANY
OCCIDENTAL OIL SHALE, INC., OPERATOR

January 15, 1982

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INTRODUCTION

Regular environmental reporting for Oil Shale Tract C-b in the current phase called Development Monitoring consists of the following reports:

<u>REPORT</u>	<u>SUBMITTAL DATE</u>
Six-Month Data Reports	January 15 July 15
Annual Report	April

Development Monitoring was initiated in April, 1978. Following is a list of semi-annual data reports which have been submitted to the Deputy Conservation Manager - Oil Shale.

<u>Report #</u>	<u>Date Submitted</u>	<u>Period of Data</u>
Development Monitoring Report #1	January 15, 1979	April 1978 - September 1978.
Development Monitoring #2 Time Series Plots	July 15, 1979 August 15, 1979	October 1978 - April 1979. October 1978 - April 1979.
Development Monitoring #3 Time Series Plots	January 15, 1980 February 1980	May 1979 - October 1979. May 1979 - October 1979.
Development Monitoring #4 Time Series Plots	July 15, 1980 August 1980	November 1979 - May 1980. November 1979 - May 1980.
Development Monitoring #5 Time Series Plots	January 15, 1981 March 31, 1981	June 1980 - November 1980 June 1980 - November 1980
Development Monitoring #6 Time Series Plots	July 15, 1981 August 1981	December 1980-April 1981 January 1981- May 1981

This present report, Development Monitoring Report #7, contains data from May 1981 through November 1981. The time series plots will be presented as a supplemental report for this reporting period, expected to follow this report in approximately one month.

In order to maintain accuracy in the data base and reports, for errors that are found requiring corrections from previously reported data, the following actions have been taken:

- 1) Summary tables in this report and the C-b computerized data base reflect corrected data to the best of our knowledge.
- 2) Cross-reference tables to data corrections and the corrected diurnal tables appear in this report.
- 3) Cumulative correction cross-reference tables are included in this report.

DISCUSSION

The following information was obtained from the file which is the subject of this report. It is presented in the order in which it was received.

Summary of Data

Report

Summary of Data
July 1951

Summary of Data
July 1951

Summary of Data

The following information was obtained from the file which is the subject of this report. It is presented in the order in which it was received.

Summary of Data

Report

Summary of Data

Summary of Data
July 1951

Summary of Data
July 1951

Summary of Data
July 1951

Summary of Data
July 1951

Summary of Data
July 1951

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2.3 Air Quality and Meteorology

The Air Quality Program is concerned with background measurements of atmospheric gaseous constituents and meteorological processes which affect transport and diffusion.

Figure 2.3-1 shows air quality network locations which include the following.

- One air quality trailer at Station AB20 that resumed operation in July, 1978.
- One air quality trailer at Station AB23 that has been in continuous operation since September, 1974 (prior to the 2 year Baseline Program).
- One air quality trailer at Station AB26 resumed operation in October 1981.
- One sixty-meter meteorological tower located at Station AA23, also operational since September, 1974.
- Weighing-bucket rain gauges at Stations AB20, AB23 and AB26.
- Pibal launches were conducted twice per day, every other day, at Station AB24 between October, 1977 and November, 1978 as a cooperative program with the EPA.
- An acoustic radar instrument located at Station AB20 has been continuously recording since October, 1977.
- Mechanical weather stations at Stations AD42 and AD56 have been in operation since February, 1978.
- Hi-vol particulate samplers at Stations AB20, AB23, AD42 and AD56 have been operational since February, 1978. Monitoring was discontinued at Station AD42 on January 24, 1979.

(Not shown on Figure 2.3-1 is the visibility monitoring station which is shown on Figure 2.3.5-1).

Figure 2.3-2 presents operational timelines for air monitoring networks from 1974 to present.

Parameter measurements for these Stations are summarized in Table 2.3-1. Malfunction codes for air quality and meteorology are listed in Table 2.3-2.

Six monthly data reports (May, 1981 - October, 1981) contain all the above basic data for this reporting period and are contained in this document.

All monitoring stations are referenced by their four-digit computer station codes. A cross-reference of the computer code and station I.D. appear in Section 4.0 (Data Automation).

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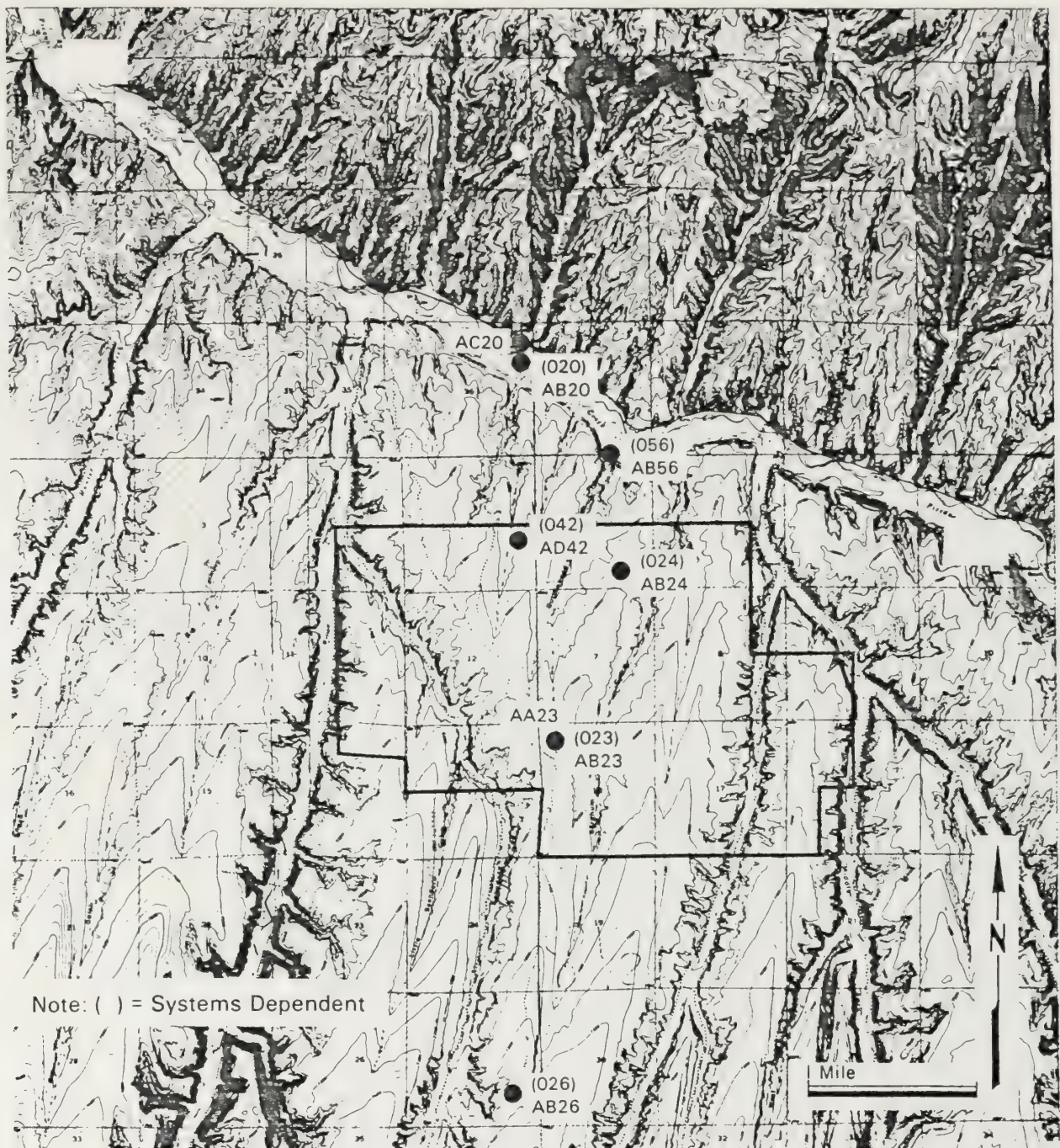


FIGURE 2.3-1
 AMBIENT AIR QUALITY DEVELOPMENT MONITORING NETWORK

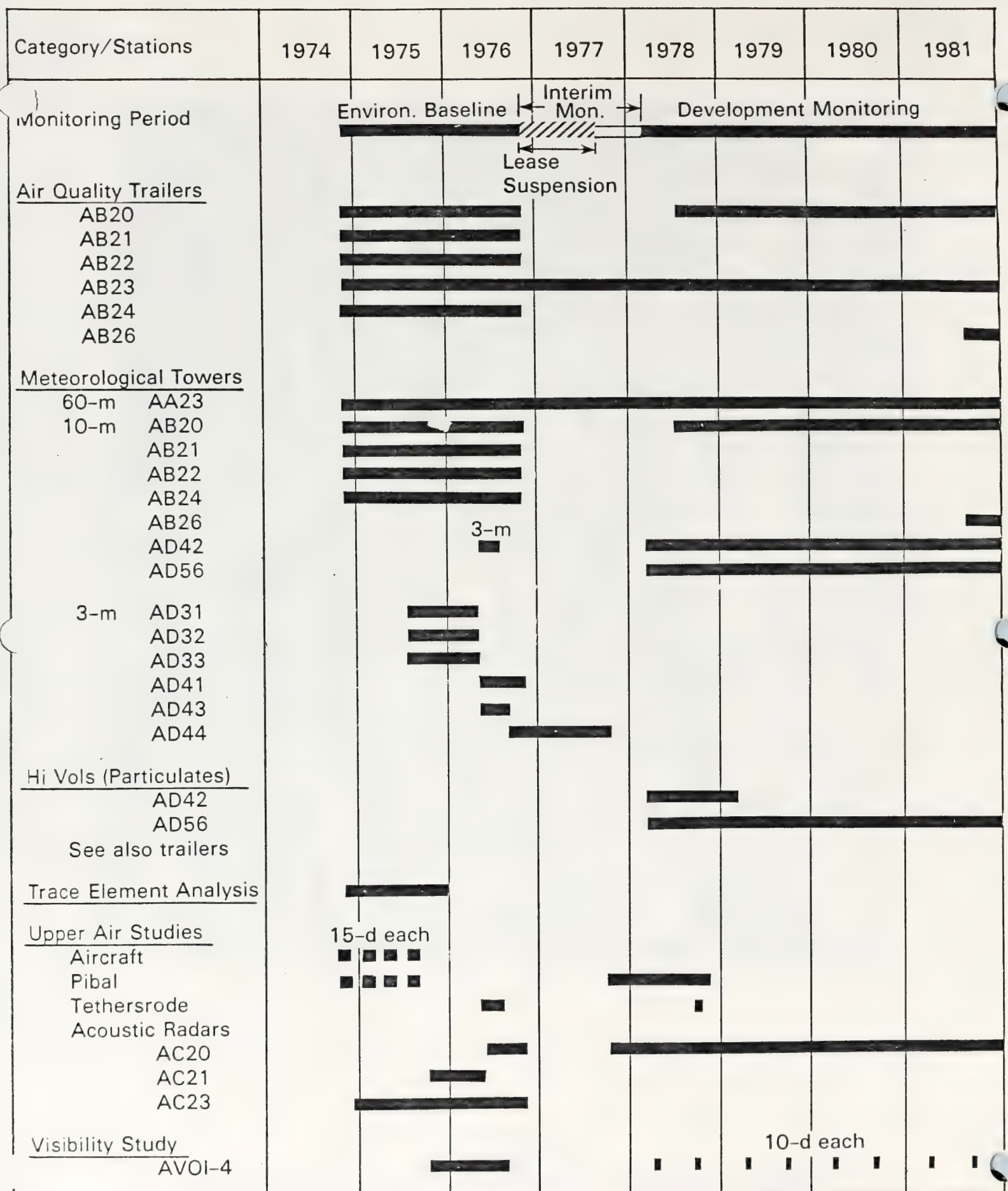


Figure 2.3-2
Operational Timelines—C-b Ambient Air Quality & Meteorology Network

TABLE 2.3-1
AIR QUALITY AND METEOROLOGICAL MEASUREMENTS

<u>Station AA23</u>	<u>Sampling Frequency</u>	<u>Minimum Reporting Frequency</u>
Tower: (@ 10m, 30m, 60m)	20 sec	1 Hr Avg
Wind Speed	20 sec	1 Hr Avg
Wind Direction	20 sec	1 Hr Avg
Temperature (10m)	20 sec	1 Hr Avg
Hor. Wind Dir. 60m	20 sec	1 Hr Avg
Delta Temp 60-10m	20 sec	1 Hr Avg
<u>Station AB20</u>		
NO	10 sec	1 Hr Avg
NO _x	10 sec	1 Hr Avg
NO ₂	NO _x -NO	1 Hr Avg
O ₃	10 sec	1 Hr Avg
Wind Speed	10 sec	1 Hr Avg
Wind Direction	10 sec	1 Hr Avg
Temperature	10 sec	1 Hr Avg
Particulate	24 Hr every 3 Days	24 Hr Avg
Precipitation	Continuous	1 Hr Total
<u>Station AB23</u>		
Trailer: NO	20 sec	1 Hr Avg
NO _x	20 sec	1 Hr Avg
NO ₂	NO _x -NO	1 Hr Avg
O ₃	20 sec	1 Hr Avg
SO ₂	20 sec	1 Hr Avg
H ₂ S	20 sec	1 Hr Avg
CO	20 sec	1 Hr Avg
Baro. Press.	20 sec	1 Hr Avg
Solar Radiation	20 sec	1 Hr Avg
Relative Humidity	20 sec	1 Hr Avg
Particulates	24 Hr every 3 Days	24 Hr Avg
Precipitation	Continuous	1 Hr Total
<u>Stations AD42, AD56</u>		
Wind Speed	Continuous	1 Hr
Wind Direction	Continuous	1 Hr
Temperature	Continuous	1 Hr
Particulate (AD56 only)	24 Hr every 3 Days	24 Hr Avg
<u>Acoustic Radar (Station AB20)</u>		
Inversion Height	Continuous	1 Hr Avg
Stability Class (50m)	Continuous	1 Hr Avg
Stability Class (200m)	Continuous	1 Hr Avg

TABLE 2.3-2

AIR QUALITY AND METEOROLOGICAL

MALFUNCTION COMPUTER CODES

Numerical	Letter	
<u>Entry Code</u>	<u>Code</u>	<u>Description</u>
8000	TR	Trace of Precipitation
9000	CA	Calibration (calibration, system check)
9100	MT	Maintenance (changing paper, tape, charcoal)
9200	FO	Flame Out (on the GC - THC, HC, CH ₄ , CO)
9300	IM	Instrument Malfunction (instrument failures)
9400	PF	Power Failure (generator failure)
9450	WR	Weather Related Malfunction (instrument freezes, temperature readings below instrumental detection)
9500	RF	Recording System Failure (chart jams, runs out clock stop)
9550	NV	Not Visible (values were not within range of instrument i.e. inversion heights may exist beyond the full scale of the Acoustic Radar)
9600	LI	Local Interference (car nearby)
9650	OE	Operator Error (Field tech leaves switch in wrong position)
9700	OS	Off Scale
9750	IN	Interference (CO ₂ interference on sulfur data, SO interference in oxidant readings)
9800	SE	Special Experiment
9850	OR	Out for Repair (instrument removed from site with no replacement)
9870	TS	Temporary Monitoring Shutdown due to Operations Conflict
9900	VA	Variable Wind Direction
9950	CM	Calm (no wind direction when wind speed = 0)
9980	UN	Unlimited Ceiling (reported by NWS Stations)
9999		Blank (causes a space to be printed as in the beginning of a new month before a component starts)

7/31/80

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2.3.1 Ambient Air Quality

The monitoring program for air quality was carried out in accordance with the provisions of the Development Monitoring Plan, as modified by conditions of approval issued by the Oil Shale Office (OSO). During this reporting period ambient air stations AB20, AB23 monitored gaseous constituents.

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2.3.1.1 Gaseous Constituents

This section presents summary tables for air quality data from Stations AB20 and AB23.

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2.3.1.1 Gaseous Constituents (continued)

<u>Table/Figure No.</u>	<u>Description</u>	<u>Page No.</u>
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Table 2.3.1.1-1

QUARTERLY SUMMARY (MARCH 1981 - MAY 1981)
($\mu\text{g}/\text{m}^3$)
STATION AB20

PARAMETER	AVERAGE	MAXIMUM 24-HOUR		MAXIMUM 8-HOUR		MAXIMUM 3-HOUR		MAXIMUM 1-HOUR	
		VALUE	TIME	VALUE	TIME	VALUE	TIME	VALUE	TIME
SO ₂ PARTICULATE	3.0	8.0	5/21/81 1300			8.7	5/10/81 1000	10.0	5/22/81 1200
	10.1	50.9	4/24/81 0100					145.0	5/6/81 1600
	66.0							15.0	5/29/81 0100
O ₃								5.0	3/10/81 0800
NO _x								11.0	5/22/81 0100
NO								0.0	5/22/81 2300
NO ₂									
CO	0.0			0.0					

Table 2.3.1.1-2

QUARTERLY SUMMARY (JUNE 1981 - AUGUST 1981)

(ug/m³)

STATION AB20

PARAMETER	AVERAGE	MAXIMUM 24-HOUR VALUE TIME	MAXIMUM 8-HOUR VALUE TIME	MAXIMUM 3-HOUR VALUE TIME	MAXIMUM 1-HOUR VALUE TIME
SO ₂				10.5 (1)	10.0 (2)
PARTICULATE		69.4 6/17/81			
O ₃					141.0 6/13/81 1400
NO _x					23.0 8/5/81 2100
NO					6.0 8/12/81 0700
NO ₂					17.0 7/5/81 0200
CO			1100 8/27/81 1000		1800.0 (3)

(1) (SO₂) Maximum concentration occurred 3 times: 8/27/81 @0900, 1200 & 1500(2) (SO₂) Maximum concentration occurred 16 times 6/15/81 @2100, 8/25/81 @1200, 8/27/81 @0900-1800, 8/28/81 @1900,2000, 8/29/81 @ 1700, 1800.

(3) (CO) Maximum concentration occurred 2 times 8/27/81 @1100 & 1200

Table 2.3.1.1-3

QUARTERLY SUMMARY (MARCH 1981 - MAY 1981)
($\mu\text{g}/\text{m}^3$)

STATION AB23

PARAMETER	AVERAGE	MAXIMUM 24-HOUR VALUE	TIME	MAXIMUM 8-HOUR VALUE	TIME	MAXIMUM 3-HOUR VALUE	TIME	MAXIMUM 1-HOUR VALUE	TIME
H ₂ S	0.0							1.0	(2)
SO ₂	0.0	6.2	5/3/81 0100			10	5/3/81 0600-0800 & 2200-2400	10.0	5/3/81 (3)
PARTICULATE	17.0	29.3	5/15/81						
O ₃	95.0							155.0	5/5/81 1200
NO _x	(1)							(1)	
NO	(1)							(1)	
NO ₂	(1)							(1)	
CO				500.0	5/20/81 0900			600.0	(4)

(1) <75% data for April & May

(2) Maximum concentrations occurred 2 times: 5/4/81 @ 1300 & 5/21/81 @ 1200

(3) Maximum concentrations occurred 4 times: 5/20/81 @ 1000, 1100, 1200 & 1300

(4) Maximum concentrations occurred 7 times: 5/3/81 @ 0100, 0600, 0700, 0800, 2200, 2300 & 2400

Table 2.3.1.1-4

QUARTERLY SUMMARY (JUNE 1981 - AUGUST 1981)
($\mu\text{g}/\text{m}^3$)

STATION AB23

PARAMETER	AVERAGE	VALUE	MAXIMUM 24-HOUR TIME	VALUE	MAXIMUM 8-HOUR TIME	VALUE	MAXIMUM 3-HOUR TIME	VALUE	MAXIMUM 1-HOUR TIME
H ₂ S								18.0	6/8/81 1200
SO ₂		17.3	8/13/81 1000				18.3 (1)	21.0	8/14/81 0900
PARTICULATE		86.2	8/7/81						
O ₃								133	6/13/81 1400
NO _x								23.0	7/5/81 0200
NO								6.0	(2)
NO ₂								17.0	(3)
CO				1800	7/1/81 0100			1800.0	(4)

(1) (SO₂) Maximum concentration occurred 4 times: 8/13/81 @1300, 1600 & 8/14/81 @0400 & 0700

(2) (NO) Maximum concentration occurred 2 times: 7/12/81 @2000, 8/18/81 @1000

(3) (NO₂) Maximum concentration occurred 2 times: 7/5/81 @0200, 8/26/81 @0300

(4) (CO) Maximum concentration occurred 4 times: 7/1/81 @0100, 0200, 0300 & 0400

Table 2.3.1.1-5 MONTHLY ARITHMETICAL AVERAGE AIR CONSTITUENT CONCENTRATIONS
OF GASES AND PARTICULATES ($\mu\text{g}/\text{m}^3$)
STATION AB20

(1980)

CONSTITUENT	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	AVERAGE
NO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	0.25
NO ₂	0.0	0.0	0.0	0.0	1.0	0.0	1.0	1.0	0.0	2.0	2.0	3.0	0.83
O ₃	36.0	32.0	45.0	64.0	66.0	67.0	58.0	56.0	57.0	49.0	37.0	25.0	49.3
CO	200.0	100.0	100.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	41.6
PARTICULATES	6.2	3.4	3.4	7.0	3.8	13.4	11.3	13.1	13.4	5.8	10.9	8.7	8.4
SO ₂	2.0	14.0	9.0	0.0	1.0	0.0	3.0	0.0	0.0	0.0	1.0	5.0	2.92

(1981)

CONSTITUENT	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEPT.	OCT.	NOV.	DEC.	AVERAGE
NO	1.0	1.0	2.0	0.0		0.0	0.0	1.0	4.0	6.0			
NO ₂	1.0	1.0	2.0	0.0		0.0	0.0	1	0.0	0.0			
O ₃	32.0	71.0	69.0	49.0	80.0	75.0	84.0	63.0	68.0	55.0			
CO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	300.0	500.0	400.0			
Particulates	6.7	6.7	3.0	16.1	10.3	33.4	22.3	23.4	15.9	4.1			
SO ₂	1.0	1.0	2.0	0.0	7.0	6.0	0.0	5.0	6.0	1.0			

+ Geometric

- (1) Monitoring of SO₂ at Station AB20 was initiated on 7/26/79
(2) Out for repair

Table 2.3.1.1-6

MONTHLY ARITHMETIC AMBIENT AIR CONSTITUENT CONCENTRATIONS
OF GASES AND PARTICULATES ($\mu\text{g}/\text{m}^3$)
STATION AB23

(1980)

CONSTITUENT	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	AVERAGE
NO	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
NO ₂	3.0	1.0	1.0	0.0	0.0	0.0	1.0	0.0	0.0	2.0	1.0	3.0	1.0
O ₃	61.0	72.0	79.0	87.0	80.0	78.0	76.0	76.0	80.0	78.0	70.0	66.0	75.2
CO	300	200	100.0	0.0	0.0	0.0	100.0	0.0	0.0	100.0	0.0	0.0	56.6
SO ₂	2.0	3.0	2.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	0.0	2.0	1.0
H ₂ S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	1.0	2.0	0.0	0.2
PARTICULATE	4.3	2.6	4.8	9.1	8.9	22.7	7.0	15.4	8.3	7.6	6.0	3.1	8.3 †

(1981)

CONSTITUENT	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEPT.	OCT.	NOV.	DEC.	AVERAGE
NO	1.0	1.0	2.0	(1)	(1)	(1)	2.0	1	3.0	6.0			
NO ₂	2.0	1.0	1.0	(1)	(1)	(1)	0.0	0	1.6	5.0			
O ₃	77.0	90.0	89.0	105.0	91.0	86.0	76.0	71.0	72.0	59.0			
CO	0.0	100.0	0.0	0.0	0.0	0.0	0.0	200.0	0.0	0.0			
SO ₂	2.0	2.0	0.0	0.0	0.0	0.0	2.0	7.0	5.0	1.0			
H ₂ S	0.0	0.0	(1)	0.0	0.0	1.0	2.0	1.0	4.0	(1)			
Particulate	6.0	7.5	6.9	12.4	12.8	26.2	33.4	24.2	16.3	3.7			

† Annual geometric mean in 1980 for Particulates was $8.32 \mu\text{g}/\text{m}^3$

(1) IM for over 75% of month

Table 2.3.1.1-7

MAXIMUM CONCENTRATIONS OF H₂S (ug/m³)

STATION AB23

(1979 - 1980) By Month

Item	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
1-Hour Maximum Value (ug/m ³) Date (MST) Wind Direction (Deg) Wind Speed (mps)	9.0 11/19/79 1500-1600 (OR)	1.0 12/17/79 1600-1700 224 3	(1)	(1)	(1)	8.0 4/11/80 0900-1000 3 3	3.0 260 1	(1)	(1)	3 8/20/80 0800-0900 56 1	1 9/23/80 1100 4 2	19 10-24-80 3 193 0

(1980 - 1981) By Month

Item	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
1-Hour Maximum Value (ug/m ³) Date (MST) Wind Direction (Deg) Wind Speed (mps)	(1)	17 12/5/80 1400 180 3	(1)	(1)	3 3/5/81 1000 177 3	1 (4) 158 2	1 (5) 14	18 6/8/81 200 227 6	10 7/17/81 1000 159 2	1 (6)	10 (7) 182 3	IM

(OR) Out for repairs

(IM) Instrument Malfunction

(1) Peak never exceeded instrument lower detection limit.

(2) Maximum concentration occurred 2 times: 5/13/80 @ 1800, 1900

(3) Maximum concentration occurred 3 times: 10/24/80 @ 0700, 0800

(4) Maximum concentration occurred 9 times: 4/10/81 @ 0600, 4/21/81 @ 1300, 1400, 1500, 1600, 1700, 1800, 2100, 2200

(5) Maximum concentration occurred 2 times: 5/4/81 @ 1300 - 5/21/81 @ 1200

(6) Refer to monthly Diurnal Table for H₂S in August Data Report(7) Maximum concentration occurred 52 times, refer to monthly Diurnal Table for H₂S in September Data Report

(1979 - 1980)

By Month

Item	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct
1-hour Maximum												
Value ($\mu\text{g}/\text{m}^3$)	16.0	8.0	18.0	21	13	5	8	8	13	5	13	3
Date	(2)	(4)	(7)	2/15/80	3/01/80	(11)	(13)	6/05/80	(15)	8/7/80	9/19/80	(10)
Time (MST)				1500	2400			1300-1400		(17)	0700-0800	
Wind Direction (Deg.)	270	90	303	(VA)	137	137	104	201	275	178	102	286
Wind Speed (mps)	2	1	1	1	4	3	2	9	2	1	3	3
3-Hour Maximum												
Value ($\mu\text{g}/\text{m}^3$)	13.1	7.9	18.1	16.3	5.2	5.1	7.9	4.4	11.3	5	9.6	2.6
Date	(3)	(5)	(8)	(9)	(10)	(12)	(14)	6/5/80	7/11/80	8/7/80	9/19/80	(16)
Time (MST)								1200-1300	(16)	1000	0600	
Wind Direction (Deg.)	281	90	98	306	147	137	128	182	275	198	106	286
Wind Speed (mps)	2	1	0	2	3	3	2	9	3	4	4	2
24-hour Maximum												
Value ($\mu\text{g}/\text{m}^3$)	8.4	4.9	17.2	17.8	2.3	3.5	7.9	0.5	10.7	1.4	5.2	2.6
Date	11/24/79	(6)	1/30/80	2/02/80	3/23/80	4/01/80	5/12/80	6/14/80	7/11/80	8/6/80	9/01/80	10/30/80
Time (MST)	1700		0800	0100	1400	0100	1400	1500-1600	0900-1000	1500	2300	1100
Wind Direction (Deg.)	123	150	98	311	305	137	219	215	118	250	104	286
Wind Speed (mps)	3	1	0	0	3	3	2	9	1	4	1	3

(1980 - 1981)

By Month

Item	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct
1-Hour Maximum												
Value ($\mu\text{g}/\text{m}^3$)	5.2	16.0	16.0	17.0	6.0		10.9	11.0	3	13	11	7
Date	(19)	12/19/80	1/15/81	2/2	2/3	(25)	5/21/81	6/15/81	7/31/81	(26)	(1-)	(29)
Time (MST)		1200-0900	1400	1200	1200		1200	2100	1200			
Wind Direction (Deg.)	115	90	140	140	144		297	101	207	230	244	140
Wind Speed (mps)	0	1	1	1	1		2	1	2	2	3	3
3-Hour Maximum												
Value ($\mu\text{g}/\text{m}^3$)	5.2	14.0	6.0	6.0	7.0		8.7	8.7	3.9	10	3.0	1.0
Date	11/25/80	12/19/80	1/15/81	2/2/81	2/4/81	(25)	5/21/81	6/15/81	7/31/81	(27)	8/7/81	10/1/81
Time (MST)	(120)	1200	1400	1200	1200		1200	2100	1200		1200	1200
Wind Direction (Deg.)	117	90	140	140	144		299	114	123	239	244	140
Wind Speed (mps)	1	0	1	1	2		0	1	3	2	3	3
24-hour Maximum												
Value ($\mu\text{g}/\text{m}^3$)	5.2	7.0	6.0	6.0	6.0		8.0	8.0	0.2	8.9	1.1	1.1
Date	(21)	12/19/80	1/15/81	2/2/81	2/3/81	(25)	5/21/81	6/14/81	7/31/81	8/2/81	8/7/81	10/1/81
Time (MST)		0100	1500	1200	1500		1300	1200	1600	(1900)	1200	1200
Wind Direction (Deg.)	117	115	191	140	240		233	0	263	025	140	140
Wind Speed (mps)	1	2	2	0	1		5	0	5	4	1	0

(1) Not operational

(2) Maximum concentration occurred 3 times: 11/09/79 @1300; 11/11/79 @1200; 11/12/79 @1200.

(3) Maximum concentration occurred 2 times: 11/29/79 @1200; 11/27/79 @0700.

(4) Maximum concentration occurred 16 times: 12/06/79 @1500, 2200, 2100, 2200; 12/05/79 @0100; 12/11/79 @0700; 12/14/79 @1300;

12/15/79 @0600, 0900, 1300; 12/16/79 @0600, 0900, 1000, 2100; 12/17/79 @0200; 12/19/79 @2000.

(5) Maximum concentration occurred 2 times: 12/02/79 @1900; 12/16/79 @0800.

(6) Maximum concentration occurred 2 times: 12/05/79 @1200; 12/16/79 @0800.

(7) Maximum concentration occurred 22 times: 1/29/80 @1100; 1/30/80 @0800, 0900, 1000, 1400, 1500, 1600, 1800, 1900, 2000, 2100, 2200, 2300, 2400;

1/31/80 @0100, 0700, 0800, 1200, 1300, 2200, 2300, 2400.

(8) Maximum concentration occurred 5 times: 1/30/80 @0500, 1400, 1700, 2000, 2300.

(9) Maximum concentration occurred 5 times: 2/01/80 @1100, 1400, 1700; 2/02/80 @0600, 0900.

(10) Maximum concentration occurred 4 times: 3/24/80 @1100; 5/31/80 @1500, 1600, 2100.

(11) Maximum concentration occurred 16 times: 4/01/80 @0100-1600.

(12) Maximum concentration occurred 5 times: 4/01/80 @0100, 0400, 0700, 1000, 1300.

(13) Maximum concentration occurred 76 times: 5/01/80 @2000, 2300, 2400; 5/02/80 @0100, 0400-0700; 5/07/80 @1600-2400; 5/08/80 @0100-0900;

5/12/80 @1500-2400; 5/13/80 @0100-1700, 1900-2400; 5/14/80 @0100-0600, 1200-1400; 5/29/80 @1400, 2000, 2100; 5/30/80 @0800.

(14) Maximum concentration occurred 5 times: 5/01/80 @2300; 5/02/80 @0400; 5/07/80 @1600, 1900, 2000.

(15) Maximum concentration occurred 2 times: 7/11/80 @1600; 7/12/80 @0200.

(16) Maximum concentration occurred 2 times: 7/11/80 @1600, 2400.

(17) Maximum concentration occurred 6 times: 8/07/80 @0600, 1000-1400.

(18) Maximum concentration occurred 24 times: 10/30/80 @1100-2400; 10/31/80 @0100-1000.

(19) Maximum concentration occurred 96 times: Refer to monthly diurnal table of SO₂ in November data Report.

(20) Maximum concentration occurred 5 times: @1200, 1500, 1800, 2100, 2400.

(21) Maximum concentration occurred 2 times: 11/25/80 @1200; 11/26/80 @1200.

(22) Maximum concentration occurred 4 times: 2/18/81 @0100, 1700; 2/19/81 @0400, 0500.

(23) Maximum concentration occurred 4 times: 3/7/81 @1800, 1900, 2000, 2100, 2200, 2300, 2400; 3/10/81 @0100, 0600, 0700, 0800, 1000, 1100, 1200, 1300;

1400; 3/29/81 @1600.

(24) Maximum concentration occurred 4 times: 3/14/81 @1300, 2100; 3/19/81 @0600, 1200.

(25) Peak never went above instrument lower detection limit.

(26) Maximum concentration occurred 15 times: 8/25/81 @1200-1300 - 1800; 8/28/81 @1900, 20, 8/29/81 @1700, 1800.

(27) Maximum concentration occurred 3 times: 8/27/81 @1300, 1400 & 1400.

(28) Maximum concentration occurred 4 times: 9/27/81 @1300, 1400, 1500, 1600; 9/10/81 @1500.

(29) Maximum concentration occurred 31 times during October 1981.

(30) Maximum concentration occurred 20 times during November 1981.

Table 2.3.1.1-9

MAXIMUM CONCENTRATIONS OF SO₂ (µg/m³)

Station AB23

(1979 - 1980)

ITEM	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT
1-Hour Maximum Value (µg/m ³)	36	9	11	21	16			5.2	5		10.5	13.0
Date	11/29/79	(2)	1/31/80	2/15/80	3/15/80			6/25/80	(4)		(6)	10/13/80
Time (MTS)	0300-0400		1200-1300	1500-1600	1300-1400	(1)	(1)	0100-0800				0900-1000
Wind Direction (Deg.)	OR	33	345	226	205			205	348	(1)	315	169
Wind Speed (mps)		3	1	2	7			0	2		1	2
3-Hour Maximum Value (µg/m ³)	12.0	8.8	7.4	8.4	13.1			5.2	5		10.5	12.2
Date	11/29/79	12/26/79	1/31/80	2/29/80	3/14/80			(3)	(5)		9/29/80	10/13/80
Time (MST)	0100-0400	2300-0200	1200-1500	2200-0100	2100-2400	(1)	(1)	(3)	(5)	(1)	2400	0900
Wind Direction (Deg.)	OR	282	345	32	180			205	348		315	169
Wind Speed (mps)		2	1	2	3			0	2		0	2
24-Hour Maximum Value (µg/m ³)	1.8	7.6	5.9	7.3	8.6			2.7	3.2		8.5	8.5
Date	11/29/79	12/26/79	1/30/80	2/29/80	3/01/80			6/24/80	7/2/80		9/29/80	10/13/80
Time (MST)	0300	1500	1100	0100	0200	(1)	(1)	0900-1000	1000	(1)	1100	0900
Wind Direction (Deg.)	OR	309	5	272	322			200	348		354	169
Wind Speed (mps)		3	1	(CM)	2			6	2		3	2

(1980 - 1981)

ITEM	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT
1-Hour Maximum Value (µg/m ³)		13.1	5	3.0	3	3	10	8	10.0	21	31	18
Date	(1)	(7)	(9)	(12)	(1)	4/6/81	5/3/81	6/21/81	7/28/81	8/14/81	9/21/81	(18)
Time (MTS)				(12)		1500	(15)	2100	1200	0900	1600	210
Wind Direction (Deg.)		214	341	299	230	224	193	324	308	208	315	7
Wind Speed (mps)		6	0	2	4	5	3	3	6	1	4	
3-Hour Maximum Value (µg/m ³)		13.1	3.5	2.6	2.6	0.9	10	5.2	8.7	18.3	17.5	17.5
Date	(1)	12/15/80	(10)	(12)	(13)	4/6/81	5/3/81	6/21/81	7/28/81	(17)	9/16/81	10/27/81
Time (MST)		(8)		299	230	1300	(16)	1900	1100	191	1100	1500
Wind Direction (Deg.)		214	VA	2	4	202	202	309	298	5	311	211
Wind Speed (mps)		6	CM			223	1	6	6		1	8
24-Hour Maximum Value (µg/m ³)		11.9	2.7	2.6	2.6	0.1	6.2	2.8	5.9	17.3	7.4	10.5
Date	(1)	12/24/80	(11)	(12)	(14)	4/5/81	5/3/81	6/21/81	7/28/81	8/13/81	9/18/81	10/27/81
Time (MST)		1400				1600	0100	0700	0700	1000	1000	1000
Wind Direction (Deg.)		192	303	299	230	187	193	90	118	205	323	195
Wind Speed (mps)		4	1	2	4	3	3	0	1	5	1	4

(CM) Calm

OR Out for repairs

(1) Peak never went above instrument lower detection limit

(2) Maximum concentration occurred 3 times: 12/26/79 @2300, 2400; 12/27/79 @0100

(3) Maximum concentration occurred 2 times: 6/25/80 @0100, 0400

(4) Maximum concentration occurred 11 times: 7/02/80 @1000-1500; 7/9/80 @0500-0900, 7/14/80 @0900;

(5) Maximum concentration occurred 3 times: 7/02/80 @1000, 1300; 7/9/80 @0500

(6) Maximum concentration occurred 3 times: 9/29/80 @2400; 9/30/80 @0400, 0800;

(7) Maximum concentration occurred 15 times: 12/25/80 @ 0100 - 1300; 12/26/80 @ 0100, 0200, 0600;

(8) Maximum concentration occurred 4 times: 12/25/80 @ 0100, 0400, 0700, 1000;

(9) Maximum concentration occurred 2 times: 1/22/81 @ 1100; 1/26/81 @ 1400

(10) Maximum concentration occurred 2 times: 1/22/81 @ 0900; 1/26/81 @ 1200

(11) Maximum concentration occurred 2 times: 1/21/81 @ 1200; 1/25/81 @ 1500

(12) Maximum concentration occurred <5 times: Refer to monthly diurnal table of SO₂ in February Data Report

(13) Maximum concentration occurred 5 times: 3/5/81 @ 1200, 1500, 1800, 2100, 2400;

(14) Maximum concentrations occurred 2 times: 3/5/81 @ 1200; 3/6/81 @ 1200

(15) Maximum concentration occurred 7 times: 5/3/81 @ 0100, 0600, 0700, 0800, 2200, 2300 & 2400

(16) Maximum concentration occurred 2 times: 5/3/81 @ 0600 & 2200

(17) Maximum concentration occurred 4 times: 8/31/81 @ 1300, 1600 & 8/14/81 @ 0400 & 0700

(18) Maximum concentration occurred 2 times: 10/27/81 @1600 & 1700

Table 2.3.1.1-10

STATION AB20

(1979 - 1980)

ITEM	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT
1-Hour Maximum Value ($\mu\text{g}/\text{m}^3$) Date Time (MST) Wind Direction (Deg.) Wind Speed (mps)	2900.0 11/27/79 1700-1800 318 1	1100.0 (9) 1400-1500 140 4	1700.0 1/07/80 1400-1500 295 8	1400.0 (10) 1400-1500 140 1	1400.0 (11) 1700 160 3	300.0 4/14/80 1700 214 0	300.0 (13) 186 3	800.0 6/15/80 1600-1900 300 4	700.0 7/28/80 1600-1800 274 2	300.0 (14) 280 5	300.0 (16) 275 3	1100.0 10/1/80 1000-1600 298 1
8-Hour Maximum Value ($\mu\text{g}/\text{m}^3$) Date Time (MST) Wind Direction (Deg.) Wind Speed (mps)	1200.0 11/27/79 1100-1900 135 3	1400.0 12/04/79 1500-2300 123 1	1300.0 1/07/80 1200-2000 289 4	800.0 2/12/80 1200-2000 149 3	700.0 3/17/80 200-2000 205 1	100.0 (12) 116 2	300.0 3/30/80 1200-1300 194 1	800.0 6/15/80 1300-1400 296 4	600.0 7/28/80 1400-1500 300 1	200.0 (15) 204 4	300.0 9/12/80 1200 286 4	1100.0 10/1/80 0900 136 3

(1980-1981)

ITEM	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT
1-Hour Maximum Value ($\mu\text{g}/\text{m}^3$) Date Time (MST) Wind Direction (Deg.) Wind Speed (mps)	1400.0 (17) 1300 172 4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1800 (18) 261 1	1000 (19) 103 3	1300 10/13/81 1000 168 1
8-Hour Maximum Value ($\mu\text{g}/\text{m}^3$) Date Time (MST) Wind Direction (Deg.) Wind Speed (mps)	500.0 11/12/80 1300 172 4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1100 8/27/81 1000 230 2	900 (20) 149 2	1100 10/13/81 0500 119 3

- (VA) Variable Wind Direction
(IM) Instrument Malfunction
(OR) Instrument is out for repair
- (1) Maximum concentration occurred 23 times during November
(2) Maximum concentration occurred 4 times: 2/20/79 @1200, 1300, 1400; 2/15/79 @0700
(3) Maximum concentration occurred 4 times: 3/07/79 @1800, 1900; 3/29/79 @0100, 0300
(4) Maximum concentration occurred 2 times: 5/14/79 @0800, 0900
(5) Maximum concentration occurred 2 times: 5/07/79 @0500; 5/16/79 @0200
(6) Maximum concentration occurred 2 times: 6/22/79 @0900; 6/23/79 @0600
(7) Maximum concentration occurred 3 times: 7/19/79 @0800, 0900; 7/29/79 @0900
(8) Maximum concentration occurred 2 times: 7/19/79 @0600; 7/29/79 @0600
(9) Maximum concentration occurred 5 times: 12/26/79 @0300; 12/12/79 @0700; 12/28/79 @1700, 1800, 1900
(10) Maximum concentration occurred 2 times: 2/26/79 @1800, 1900
(11) Maximum concentration occurred 3 times: 3/17/80 @2100; 3/05/80 @1800, 1900
(12) Maximum concentration occurred 5 times: 4/21/80 @0600; 4/14/80 @1000; 4/18/80 @0600; 4/19/80 @0400; 4/30/80 @0600
(13) Maximum concentration occurred 5 times: 5/30/80 @1400; 1500; 8/30/80 @1600; 1600; 8/30/80 @1600-1800
(14) Maximum concentration occurred 5 times: 5/30/80 @1600; 1600; 8/30/80 @1600-1800
- (15) Maximum concentration occurred 3 times: 8/19/80 @ 1200; 8/21/80 @ 1200; 8/23/80 @ 1200.
(16) Maximum concentration occurred 5 times: 9/12/80 @ 1500-1900.
(17) Maximum concentration occurred 3 times: 11/12/80 @ 1800-2000.
(18) Maximum concentration occurred 2 times: 8/27/81, 1100 & 1200.
(19) Maximum concentration occurred 6 times: 9/12/81 @1800, 1900; 9/14/81 @ 1600, 2100; 9/15/81 @0600, 0800
(20) Maximum concentration occurred 4 times during Sept. 1981

Table 2.3.1.1-11

MAXIMUM CONCENTRATIONS OF CO ($\mu\text{g}/\text{m}^3$)

STATION AB23

(1979 - 1980)

ITEM	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT
1-Hour Maximum												
Value ($\mu\text{g}/\text{m}^3$)	1300.0	2400.0	3800.0	2000.0	1600.0	300	200	500.0	400.0	200.0	0.0	1700
Date	(4)	12/04/79	1/03/80	2/12/80	(5)	(6)	(7)	6/26/80	7/18/80	8/6/80	(10)	(11)
Time (MST)	(4)	1900-2000	1900-2000	1800-1900	(5)	(6)	(7)	2300-2400	1300-1400	1100-1500		(11)
Wind Direction (Deg.)	(OR)	214	201	219	203	53	213	209	224	220		216
Wind Speed (mps)	(OR)	7	3	5	7	6	4	4	3	5		5
8-Hour Maximum												
Value ($\mu\text{g}/\text{m}^3$)	1100.0	1700.0	3000.0	1000.0	1600.0	300.0	100.0	400.0	300.0	200.0	0.0	1700
Date	11/29/79	12/04/79	1/10/80	2/12/80	3/17/80	4/24/80	(8)	6/26/80	7/7/80	(9)	(10)	(12)
Time (MST)	0900-1700	1500-2300	0800-1600	1300-2100	2100-0500	1600-2400	(8)	1700-1800	1300-1400	(9)		(12)
Wind Direction (Deg.)	(OR)	216	225	223	151	40	112	229	208	205		216
Wind Speed (mps)	(OR)	5	12	6	3	4	1	8	PF	6		5

(1980 - 1981)

ITEM	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT
1-Hour Maximum												
Value ($\mu\text{g}/\text{m}^3$)	200.0	300.0	300.0	100.0	200.0	200.0	600	400	1800	900	300	600
Date	11/14/80	12/17/80	1/14/81	(14)	(16)	(1)	(19)	(20)	(21)	8/15/81	9/28/81	10/8/81
Time (MST)	1500	1900-2200	1600/1700	(14)	(17)	(17)	173	224	158	1400	1400-1600	2000
Wind Direction (Deg.)	(1)	209	225	299	185	309				245	230	281
Wind Speed (mps)	1	1	3	2	4	4			2	3	8	2
8-Hour Maximum												
Value ($\mu\text{g}/\text{m}^3$)	100.0	300.0	200.0	100.0	200.0	100.0	500.0	400.0	1800	700	300	500
Date	(13)	12/17/80	1/14/81	(15)	3/2/81	(18)	5/20/81	7/12/81	7/1/81	8/30/81	8/28/81	10/8/81
Time (MST)	(13)	1600	1200	(15)	1200	(18)	0900	1400	0100	0200	1000	1300
Wind Direction (Deg.)	218	217	(MT)	299	159	15	198	223	158	129	209	224
Wind Speed (mps)	6	4	(MT)	2	5	1	9	8	2	3	7	4

* On September 12, 1978, the gas chromatograph at Station AB23 was replaced with a new N.D.I.R. monitor

(VA) Variable Wind Direction

(CM) Calm

(OR) Out For Repair

(MT) Maintenance

(1) No Data - Instrument Malfunction

(2) Maximum Concentration Occurred 2 times: 5/14/79 @6700; 5/17/79 @1200

(3) Maximum Concentration Occurred 2 times: 8/02/79 @0700; 8/09/79 @0700

(4) Maximum Concentration Occurred 3 times: 11/26/79 @1500, 1600; 11/29/79 @1100

(5) Maximum Concentration Occurred 5 times: 3/5/80 @1600, 3/17/80 @2100, 2200, 2300, 2400

(6) Maximum Concentration Occurred 3 times: 4/24/80 @1700, 1800, 1900

(7) Maximum Concentration Occurred 2 times: 5/01/80 @1600, 1700

(8) Maximum Concentration Occurred 5 times: 5/1/80 @1100; 5/14/80 @0700, 1500; 5/17/80 @1300; 5/23/80 @1900

(9) Maximum Concentration Occurred 3 times: 8/6/80 @0900; 8/7/80 @1200; 8/8/80 @0900

(10) Values never reached lower detection limit of instrument.

(11) Maximum Concentration Occurred 16 times: 10/13/80 @1700-2400; 10/14/80 @0100-0800

(12) Maximum Concentration Occurred 2 times: 10/13/80 @1700; 10/14/80 @0100

(13) Maximum Concentration Occurred 4 times: 11/10/80 @1200; 11/14/80 @0800; 11/13/80 @1000; 11/6/80 @0700

(14) Maximum concentration occurred 295 times: Refer to monthly diurnal table of CO in February Data Report.

(15) Maximum Concentration occurred 37 times: Refer to monthly diurnal table of CO in February Data Report.

(16) Maximum Concentration occurred 5 times: 3/2/82 @1400, 1500, 1700; 3/13/81 @1300, 1400

(17) Maximum concentration occurred 4 times: 4/29/81 @1800, 1900, 4/30/81 @1700, 1800

(18) Maximum concentration occurred 2 times: 4/29/81 @ 1400; 4/30/81 @ 1300

(19) Maximum concentration occurred 4 times: 5/20/81 @1000, 1100, 1200 & 1300

(20) Maximum concentration occurred 2 times: 7/12/81 @1400 - 7/13/81 @0200; 7/16/81 @1200 - 1300

(21) Maximum concentration occurred 4 times: 7/1/81 @0100, 0200, 0300, 0400

Table 2.3.1.1-12

MAXIMUM CONCENTRATIONS OF OZONE ($\mu\text{g}/\text{m}^3$)

STATION AB20

Item	By Month											
	(1979 - 1980)						(1980 - 1981)					
	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
1-Hour Maximum Value ($\mu\text{g}/\text{m}^3$)	66.7	49.0	49.0	49.0	113.8	121.6	115.8	120	114	110	112	102
Date	11/04/79	12/06/79	(1)	2/13/80	(2)	4/01/80	(3)	(4)	7/24/80	8/7/80	9/5/80	10/7/80
Time (MST)	1600-1700	1700-1800	(1)	1700-1800	(2)	1400-1500	(3)	(4)	1200-1300	1400-1500	(5)	1600
Wind Direction (Deg.)	257	(VA)	310	230	307	140	8	194	299	219	292	318
Wind Speed (mps)	4	0	4	2	1	1	0	4	1	3	1	3

Item	By Month											
	(1980 - 1981)						(1981 - 1982)					
	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
1-Hour Maximum Value ($\mu\text{g}/\text{m}^3$)	96	82	100	127.5	121.6	78.0	145.0	141	161	125	139	98
Date	11/17/80	(6)	1/15/81	(7)	3/12/81	(8)	5/6/81	6/13/81	(9)	8/1/81	(10)	(11)
Time (MST)	1600	(6)	1600	(7)	1600	(8)	1600	1800	(9)	1400	(10)	(11)
Wind Direction (Deg.)	251	222	119	336	86	115	197	249	243	122	258	183
Wind Speed (mps)	0	2	0	1	1	2	4	6	3	1	3	4

(VA) Variable wind direction

- (1M) Instrument malfunction
- (1) Maximum concentration occurred 5 times: 1/06/80 @ 1100, 1300, 1400; 1/10/80 @ 2000, 2100
- (2) Maximum concentration occurred 2 times: 3/31/80 @ 1600, 1700
- (3) Maximum concentration occurred 4 times: 4/29/80 @ 1200, 1400, 1500, 1700
- (4) Maximum concentration occurred 3 times: 6/02/80 @ 1500; 6/03/80 @ 1700, 1800
- (5) Maximum concentration occurred 3 times: 9/05/80 @ 1200, 1400, 1500
- (6) Maximum concentration occurred 2 times: 12/30/80 @ 1300, 1400
- (7) Maximum concentration occurred 2 times: 2/18/81 @ 1200, 1300
- (8) Maximum concentration occurred 3 times: 4/5/81 @ 1200; 4/6/81 @ 1800; 4/9/81 @ 1300
- (9) Maximum concentration occurred 2 times: 7/31/81 @ 1600, 1700
- (10) Maximum concentration occurred 2 times: 9/1/81 @ 1800, 1900
- (11) Maximum concentration occurred 2 times: 10/27/81 @ 1400, 1500

Table 2.3.1.1-13

MAXIMUM CONCENTRATIONS OF OZONE ($\mu\text{g}/\text{m}^3$)

STATION AB23

Item	By Month											
	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
1-Hour Maximum Value ($\mu\text{g}/\text{m}^3$)	102.0	97.1	153.6	96.9	107.9	119.7	129.5	129	123	127	127	120
Date	(1)	12/10/79	1/03/80	2/13/80	(2)	(3)	5/24/80	6/3/80	7/18/80	8/4/80	9/29/80	10/8/80
Time (MST)	(1)	1700-1800	0700-0800	1700-1800	(2)	(3)	2100-2200	2400-0100	1800-1900	1700-1800	(4)	1400
Wind Direction (Deg.)	311	295	129	223	315	247	203	192	228	310	339	334
Wind Speed (mps)	1	1	2	2	1	1	5	3	6	7	3	3

Item	By Month											
	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
1-Hour Maximum Value ($\mu\text{g}/\text{m}^3$)	108	96	114	113.8	149	139	155	133	114	106	104	88
Date	(5)	12/21/80	1/24/81	(6)	3/27/81	4/17/81	5/5/81	6/13/81	7/5/81	8/30/81	(7)	10/27/81
Time (MST)	(5)	1900	1400	(6)	0800	1700	1200	1400	1100	1500	(7)	1400
Wind Direction (Deg.)	220	210	228	19	172	236	209	237	83	220	233	217
Wind Speed (mps)	6	5	8	1	6	3	6	10	2	6	4	8

- (1) Maximum concentration occurred 2 times: 1/30/80 @ 1500, 1600
 (2) Maximum concentration occurred 2 times: 3/19/80 @ 1300, 1400
 (3) Maximum concentration occurred 3 times: 4/01/80 @ 1800; 4/05/80 @ 1300; 4/25/80 @ 1400
 (4) Maximum concentration occurred 2 times: 9/29/80 @ 1400, 1500
 (5) Maximum concentration occurred 2 times: 11/9/80 @ 1600; 11/10/80 @ 1600
 (6) Maximum concentration occurred 2 times: 2/05/81 @ 1300; 2/28/81 @ 1200
 (7) Maximum concentration occurred 5 times: 9/3/81 @ 1500; 9/12/81 @ 1200-1400; 9/21/81 @ 1100

Table 2.3.1.1-14

MAXIMUM CONCENTRATIONS OF NO_x (ug/m³)

STATION AB20

(1979 - 1980)

Item	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
1-Hour Maximum Value (ug/m ³)	19	15	11	17	36	23	24	6	13	8	15	17
Date	11/02/79	12/12/79		2/04/80	3/06/80	4/23/80	5/25/80	(2)	7/1/80	8/19/80	9/15/80	10/30/80
Time (MST)	1800-1900	1800-1900	(1)	0800-0900	1800-1900	0800-0900	2300-2400		2400-0000	0700-0800	0600	0800
Wind Direction (Deg.)	82	100	43	37	260	100	111	0	45	106	135	93
Wind Speed (mps)	1	1	1	0	0	1	2	0	0	2	3	1

(1980 - 1981)

Item	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
1-Hour Maximum Value (ug/m ³)	21	21	15	9	13	2	15	(*)	6	23	8	6
Date	11/5/80	12/19/80			3/21/81	(6)	5/29/81		(7)	8/5/81	(8)	(9)
Time (MST)	0800	(3)	(4)	(5)	1600		0100		284	2100	99	(CM)
Wind Direction (Deg.)	90	90	VA	135	28	110	119		2	111	1	(CM)
Wind Speed (mps)	0	0	CM	0	1	1	2		2	2		

(*) Maximum never exceeded lower detection limit.

- (1) Maximum concentration occurred 3 times: 1/02/80 @ 1800; 1/07/80 @ 1000
 (2) Maximum concentration occurred 3 times: 6/03/80 @ 0700; 6/08/80 @ 2400; 6/16/80 @ 0700
 (3) Maximum concentration occurred 2 times: 12/19/80 @ 0800, 0900
 (4) Maximum concentration occurred 2 times: 1/05/81 @ 1700; 1/15/81 @ 1400
 (5) Maximum concentration occurred 3 times: 2/15/81 @ 1000; 2/18/81 @ 0800; 2/27/81 @ 0800
 (6) Maximum concentration occurred 3 times: 4/14/81 @ 0900; 4/28/81 @ 0700, 0800
 (7) Maximum concentration occurred 2 times: 7/8/81 @ 1000; 7/31/81 @ 2300
 (8) Maximum concentration occurred 6 times: 9/2/81 @ 0700; 9/5/81 @ 0700, 1100, 1200; 9/6/81 @ 0600, 0700
 (9) Maximum concentration occurred 4 times: 10/9/81 @ 0700, 0800; 10/21/81 @ 0700; 10/22/81 @ 0700

Table 2.3.1.1-15

MAXIMUM CONCENTRATIONS OF NOX ($\mu\text{g}/\text{m}^3$)

STATION AB23

(1979 - 1980) By Month

Item	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
1-Hour Maximum Value ($\mu\text{g}/\text{m}^3$)	42	30	18	24	21	28	38	6	32	13	26	58
Date	11/21/79	12/13/79	(1)	2/11/80	4/31/80	4/27/80	5/19/80	(2)	7/31/80	8/11/80	9/29/80	10/7/80
Time (MST)	0800-0900	0700-0800	(1)	1000-1100	1000-1100	0700-0800	0700-0800	(2)	0300-0400	1000-1100	0600	1800
Wind Direction (Deg.)	(OR)	88	113	279	351	56	50	206	210	353	207	337
Wind Speed (mps)	(OR)	1	1	1	1	0	0	6	1	1	0	3

(1980 - 1981) By Month

Item	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
1-Hour Maximum Value ($\mu\text{g}/\text{m}^3$)	41	51	32	26	39	(3)	(3)	(4)	23	17	30	64
Date	11/5/80	12/9/80	1/20/81	2/4/81	3/4/81	(3)	(3)	(4)	7/5/81	8/26/81	9/20/81	10/14/81
Time (MST)	0500	0400	0100	1200	0700	(3)	(3)	(4)	0200	0300	1800	1800
Wind Direction (Deg.)	132	261	60	337	330	(3)	(3)	(4)	73	157	318	330
Wind Speed (mps)	0	0	1	1	4	(3)	(3)	(4)	1	1	6	3

(OR) Out for repairs

(1) Maximum concentration occurred 2 times: 1/22/80 @ 2400; 1/31/80 @ 1600

(2) Maximum concentration occurred 8 times: 6/02/80 @ 0900, 1000; 6/15/80 @ 0800; 6/19/80 @ 1700, 2100, 2400; 6/27/80 @ 1000, 1100

(3) <75% Data

(4) Peak never exceeded instrument lower detection limit

Table 2.3.1.1-16

MAXIMUM CONCENTRATIONS OF NO ($\mu\text{g}/\text{m}^3$)

STATION AB20

Item	By Month											
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
1-Hour Maximum Value ($\mu\text{g}/\text{m}^3$)	2	7	4	9	6	4		2	5	2	4	5
Date		12/14/79		2/23/80	3/06/80	5/23/80		6/16/80	7/11/80			
Time (MST)	(1)	1000-1100	(2)	1500-1600	1800-1900	0800-0900	(3)	0700-0800	1800-1900	(4)	(5)	(6)
Wind Direction (Deg.)		5	325	297	260	100		104	279	102	131	103
Wind Speed (mps)		0	1	1	0	1		0	2	1	0	2

Item	By Month											
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
1-Hour Maximum Value ($\mu\text{g}/\text{m}^3$)	9	7	7	2	5	1	5		5	6	4	5
Date	11/5/80	7/15/81	1/07/80	8/09/80	3/10/81	(9)	5/22/81	(3)	7/8/81	8/12/81	(10)	10/9/81
Time (MST)	0800	(7)	1400	(8)	0800		0100		1000	0700	(CM)	0800
Wind Direction (Deg.)	90	90	109	135	(CM)	95	102		284	117	(CM)	(CM)
Wind Speed (mps)	0	0	2	0	0	1	1		2	1		

- (1) Maximum concentration occurred 4 times: 11/21/79 @ 900, 1000, 1900; 11/01/80 @ 800
 (2) Maximum concentration occurred 2 times: 1/07/80 @ 1000, 1100
 (3) Peak never exceeded instrument lower detection limit of 5 $\mu\text{g}/\text{m}^3$
 (4) Maximum concentration occurred 3 times: 8/09/80 @ 2100, 2200; 8/26/80 @ 0700
 (5) Maximum concentration occurred 4 times: 9/10/80 @ 0700, 9/11/80 @ 0700, 9/16/80 @ 0600, 0700
 (6) Maximum concentration occurred 2 times: 10/20/80 @ 0800, 10/30/80 @ 0800
 (7) Maximum concentration occurred 2 times: 12/19/80 @ 0800, 0900
 (8) Maximum concentration occurred 31 times: Refer to Monthly Diurnal Table of NO in February Data Report
 (9) Maximum concentration occurred 2 times: 4/28/81 @ 0700, 0800
 (10) Maximum concentration occurred 21 times: 9/4/81 @ 2300; 9/5/81 @ 0100-1300; 9/6/81 @ 0100-0600

Table 2.3.1.1-17

MAXIMUM CONCENTRATIONS OF NO_x (ug/m³)

STATION AB23

(1979 - 1980)

By Month

Item	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
1-Hour Maximum Value (ug/m ³)	11	9	6	6	7	6	9	1	6	1	4	18
Date	11/28/79	12/01/79	1/31/80	2/11/80	3/31/80	4/27/80	5/19/80				9/25/80	10/24/80
Time (MST)	1100-1200	1500-1600	1100-1200	1000-1100	1000-1100	0700-0800	0700-0800	(2)	(3)	(4)	0800	0400
Wind Direction (Deg.)	(1)	327	116	279	351	56	50	(2)	(3)	(4)	264	279
Wind Speed (mps)	1	1	1	1	1	0	0	206	340	326	1	0

(1980 - 1981)

By Month

Item	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
1-Hour Maximum Value (ug/m ³)	7	17	20	10	15				6	6	11	
Date	11/4/80	12/26/80	1/01/81	2/4/81	3/9/81				7/12/81	8/18/81		
Time (MST)	0800-0900	0900-1000	1200	1200	1100	(5)	(5)	(6)	2000	1000	(7)	
Wind Direction (Deg.)	225	120	345	337	301				267	356	318	
Wind Speed (mps)	1	1	1	1	1				2	1	6	

(VA) Variable wind direction

(MT) Instrument down for maintenance

(1) Out for repairs

(2) Maximum concentration occurred 3 times: 6/02/80 @ 0900, 1000; 6/19/80 @ 1700

(3) Maximum concentration occurred 3 times: 7/01/80 @ 1000; 7/16/80 @ 0700, 1000

(4) Maximum concentration occurred 3 times: 8/19/80 @ 1900; 8/21/80 @ 0900, 1000

(5) <75% Data

(6) Instrument never exceeded lower detector limit of 5 ug/m³

(7) Maximum concentration occurred 2 times: 9/20/81 @ 1800; 9/27/81 @ 0500

Table 2.3.1.1-18

MAXIMUM CONCENTRATIONS OF NO₂($\mu\text{g}/\text{m}^3$)*

STATION AB20

Item	By Month											
	(1979-1980)											
1-Hour Maximum	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept.	Oct
Value ($\mu\text{g}/\text{m}^3$)	19	15	11	17	26	17	24	6	8	6	15	11
Date	11/02/79	12/12/79	1/02/80	2/04/80	3/06/80	4/23/80	5/25/80	6/8/80	(1)	(2)	9/15/80	(3)
Time (MST)	1800-1900	1800-1900	1800-1900	0800-0900	1800-1900	0800-0900	2300-2400	2400	(1)	(2)	0600	(3)
Wind Direction (Deg.)	82	100	43	37	260	100	111	101	115	70	135	104
Wind Speed (mps)	1	1	1	0	0	1	2	2	1	0	3	0

Item	By Month											
	(1980-1981)											
1-Hour Maximum	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept.	Oct
Value ($\mu\text{g}/\text{m}^3$)	11	11	13	6	9	2	11	(*)	17	15	4	6
Date	(4)	(5)	1/05/81	(6)	(7)	4/14/81	5/22/81		7/5/81	8/5/81	(8)	10/2/81
Time (MST)	(4)	(5)	1700		107	0900	2300		0200	2100	107	0700
Wind Direction (Deg.)	15	90	VA	121	1	110	60		101	111	0	199
Wind Speed (mps)	1	1	CM	0		1	0		1	2		3

(*) Maximum never exceeded lower detection limit.

CM = Calm

VA = Variable

- (1) Maximum concentration occurred 3 times: 7/1/80 @2300, 2400; 7/2/80 @0900;
 (2) Maximum concentration occurred 5 times: 8/1/80 @2400; 8/9/80 @0100, 0200; 8/19/80 @0700; 8/22/80 @2000;
 (3) Maximum concentration occurred 2 times: 10/10/80 @0700; 10/11/80 @0700;
 (4) Maximum concentration occurred 2 times: 11/3/80 @1900; 11/18/80 @1000;
 (5) Maximum concentration occurred 8 times: 12/12/80 @ 1800, 1900; 12/15/80 @ 1800; 12/16/80 @ 1700; 12/18/80 @ 1800;
 (6) Maximum concentration occurred 8 times: 12/19/80 @ 1800, 1900; 12/23/80 @ 0800;
 (7) Maximum concentration occurred 2 times: 2/15/81 @ 0100, 1000, 1100; 2/17/81 @ 1000, 1100; 2/18/81 @ 0800; 2/23/81 @ 1900, 2/27/81 @ 0800
 (8) Maximum concentration occurred 4 times: 3/19/81 @ 0900; 3/21/81 @ 1600
 (9) Maximum concentration occurred 4 times: 9/2/81 @ 0600, 0700, 2000; 9/27/81 @ 0700

Table 2.3.1.1-19

MAXIMUM CONCENTRATIONS OF NO₂ (ug/m³)
STATION AB23

Item	By Month											
	(1979 - 1980)						(1980 - 1981)					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
1-Hour Maximum Value (ug/m ³)	33	29	23	15	19	19	24	2	32	13	13	41
Date	11/21/79	12/13/79	1/22/80	2/11/80	3/19/80	4/27/80	5/19/80	(2)	7/31/80	8/11/80	9/25/80	9/7/80
Time (MST)	0800	0700	2400	(1)	1900	0700	0700		0300	1000	0700	(3)
Wind Direction (Deg.)	(OR)	88	113	264	337	56	50	229	106	353	10	258
Wind Speed (mps)		1	1	1	4	0	0	3	1	1	0	0

Item	By Month											
	(1980 - 1981)											
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
1-Hour Maximum Value (ug/m ³)	36	45	21	17	23	(4)	(4)	45	17	17	13	23
Date	11/5/80	12/9/80	1/20/81	2/6/81	3/1/81			6/21/81	7/5/81	8/26/81	(5)	10/14/81
Time (MST)	0500	0400	0100	1800	0700	(4)	(4)	2100	0200	0300		1800
Wind Direction (Deg.)	132	261	60	333	330			324	73	157	318	330
Wind Speed (mps)	0	0	1	3	4			3	1	1	6	3

(OR) Out for repairs

- (1) Maximum concentration occurred 3 times: 2/11/80 @ 0800, 0900, 1000
 (2) Maximum concentration occurred 5 times: 6/15/80 @ 0800; 6/19/80 @ 2100, 2400; 6/27/80 @ 1000, 1100
 (3) Maximum concentration occurred 2 times: 10/7/80 @ 0200, 1800
 (4) <75% Data
 (5) Maximum concentration occurred 2 times: 9/20/81 @ 1800, 9/21/81 @ 1600

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2.3.1.2 Particulates

This section presents summary tables of 24-hour maximum concentrations for suspended particulates at Stations AB20, AB23, and AD56. The monthly data samples are presented in each of the monthly data reports.

Following is a list of tables for this section:

		<u>Page No.</u>
Table 2.3.1.2-1	Maximum Concentrations of Particulates Station AB20	II-34
Table 2.3.1.2-2	Maximum Concentrations of Particulates Station AB23	II-35
Table 2.3.1.2-3	Maximum Concentration of Particulates Station AD56	II-36

Table 2.3.1.2-1

MAXIMUM CONCENTRATIONS OF PARTICULATES ($\mu\text{g}/\text{m}^3$)

STATION AB20

Item	By Month										
	(1979-1980)										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
24-Hour Maximum Value ($\mu\text{g}/\text{m}^3$)	12.2	11.6	15.9	10.3	7.0	21.3	21.4	33.0	20.5	30.9	22.7
Date	11/06/79	12/12/79	1/08/80	2/01/80	3/08/80	4/25/80	5/22/80	6/24/80	7/15/80	8/5/80	9/28/80
											10/1/80
											40.5

Item	By Month										
	(1980 - 1981)										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
24-Hour Maximum Value ($\mu\text{g}/\text{m}^3$)	18.2	9.2	23.4	15.1	5.9	50.9	22.8	69.4	32.3	61.1	27.1
Date	11/21/80	12/3/80	1/5/81	2/25/81	3/18/81	4/24/81	5/9/81	6/17/81	7/5/81	8/8/81	9/30/81
											10/21/81
											4.2

Table 2.3.1.2-2

MAXIMUM CONCENTRATIONS OF PARTICULATES ($\mu\text{g}/\text{m}^3$)

STATION AB23

Item	By Month											
	(1979-1980)											
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
24-Hour Maximum Value ($\mu\text{g}/\text{m}^3$)	18.4	8.4	18.2	10.4	8.5	23.1	27.5	40.5	12.2	24.0	32.5	32.9
Date	11/06/79	12/18/79	1/08/80	2/07/80	3/08/80	4/16/80	5/22/80	6/27/80	7/18/80	8/08/80	9/16/80	10/10/80

Item	By Month											
	(1980-1981)											
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
24-Hour Maximum Value ($\mu\text{g}/\text{m}^3$)	25.7	58.4	13.6	16.7	15.3	21.0	29.3	61.8	57.0	86.2	26.3	4.2
Date	11/3/80	12/3/80	1/20/81	2/16/81	3/27/81	4/18/81	5/15/81	6/17/81	7/8/81	8/7/81	9/15/81	10/21/81

Table 2.3.1.2-3

MAXIMUM CONCENTRATIONS OF PARTICULATES * (ug/m³)

STATION AD56

Item	By Month											
	(1979-1980)											
	Nov	Dec	Jan.	Feb	Mar.	Apr.	May	June	July	Aug	Sept.	Oct.
24-Hour Maximum Value (ug/m ³)	9.6	55.6	18.7	6.9	6.0	42.0	19.4	17.1	32.6	19.7	11.9	26.6
Date	11/03/79	12/30/79	1/08/80	2/01/80	3/11/80	4/25/80	5/25/80	6/3/80	7/27/80	8/8/80	9/07/80	10/7/80

Item	By Month											
	(1980-1981)											
	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug	Sept.	Oct.
24-Hour Maximum Value (ug/m ³)	13.2	6.5	15.6	16.3	12.7	12.3	16.4	34.7	74.3	3.4	21.2	4.1
Date	11/12/80	12/3/80	1/8/81	2/25/81	3/27/81	4/30/81	5/15/81	6/23/81	7/8/81	8/7/81	9/12/81	(1)

* Monitoring of particulates at Station AD56 was initiated on 2/1/78

(1) Maximum concentration occurred 5 times. 10/6/81, 10/21/81, 10/24/81, 10/27/81, 10/30/81

2.3.2 Trace Metals

No additional studies were conducted during this time period.

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2.3.3 Meteorology

During this reporting period meteorological parameters were monitored at four stations; AB20, AA23, AD42, AD56. Station AB20 instrumentation is monitored at the 10 meter level. Station AA23 is a 60 meter meteorological tower, co-located by station AB23 (air quality trailer), with monitoring instrumentation at three levels; 10 meter, 30 meter, and 60 meter. All of the above systems operate on a continuous basis.

The mechanical recording instruments at AD42 and AD56 were replaced by new instrumentation. Station AD42 is a solar powered R. A. instrument installed and maintained by WestAq Corp. A pyranometer was added to this station for measuring solar radiation. Station AD56 instrumentation is manufactured by Weathertronics. Both stations are recording data to cassette magnetic tapes.

Data for AD42 are included in this section for partical July 1981 through October 1981. Data remaining for this report period will be reported in the next semi-annual data report.

May data for Station AD56 are not included for this reporting period (May, 1981 through October, 1981), due to lag in data reduction. These data will be reported in the next semi-annual data report.

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2.3.3.1 Climatological Records

This section presents low altitude meteorology for temperature, relative humidity, direct solar radiation and stability classes. The Colorado climatological data for temperature, snowfall and snow on ground are also presented here.

<u>Table/Figure No.</u>	<u>Description</u>	<u>Page No.</u>
	<u>Low Altitude Meteorology</u>	
	<u>Meteorology Summary</u>	
Table 2.3.3.1-1	Temperature at Station AB20	II-42
Table 2.3.3.1-2	Temperature and Relative Humidity, Station AA23	II-43
Table 2.3.3.1-3	Temperature at Station AD42	II-44
Table 2.3.3.1-4	Temperature at Station AD56	II-45
Table 2.3.3.1-5	Direct Solar Radiation at Station AB23	II-46
Table 2.3.3.1-6	Station AD42	II-47
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Figure 2.2.1 shows monitoring stations presented in this section.

(10 Meter height)

Table 2.3.3.1-1

(1979 - 1980)

ITEM	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT
Temperature, Hourly Maximum(°C)	13	11	9	13	12	23	26	32	33	32	30	26
Temperature, Hourly Minimum(°C)	-24	-26	-23	-22	-16	-9	-1	1	8	3	-3	-9
Temperature, Hourly Average(°C)	-4	-5	-3	-1	1	6	11	18	21	19	14	7

(1980-1981)

ITEM	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT
Temperature, Hourly Maximum(°C)	21	17	13	IM	13	24	24	34	34	34	28	68
Temperature, Hourly Minimum(°C)	-14	-13	-14	IM	-3	-4	-3	-3	6	6	-1	-15
Temperature, Hourly Average(°C)	1	2	-2	IM	(1)	(1)	10	18	20	18	15	6

Table 2.3.3.1-2

METEOROLOGICAL SUMMARY: TEMPERATURE AND RELATIVE HUMIDITY
 STATIC #23
 (10 Water Height)

(1979 - 1980)

ITEM	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT
Temperature, Hourly Maximum(°C)	13	9	6	10	9	20	23	31	31	30	27	23
Temperature, Hourly Minimum(°C)	-14	-17	-16	-17	-13	-9	-1	3	11	4	1	-8
Temperature, Hourly Average(°C)	(1)	-2	-4	-1	-1	5	9	19	21	19	15	7
Relative Humidity Hourly Maximum(%)	100	(1)	(1)	95	99	98	98	90	93	94	93	94
Relative Humidity Hourly Minimum(%)	21	(1)	(1)	18	22	13	11	11	8	8	8	7
Relative Humidity Hourly Average(%)	73	(1)	(1)	67	66	53	61	32	42	39	42	52

(1980-1981)

ITEM	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT
Temperature, Hourly Maximum(°C)	18	13	11	12	13	21	24	33	33	31	27	23
Temperature, Hourly Minimum(°C)	-5	-11	-11	-19	-8	-9	-2	-1	6	8	1	-8
Temperature, Hourly Average(°C)	9	2	-1	-1	1	9	9	19	-20	18	15	6
Relative Humidity Hourly Maximum(%)	98	96	99	100	99	86	86	85	87	67	67	65
Relative Humidity Hourly Minimum(%)	13	17	21	17	37	40	42	41	42	21	21	28
Relative Humidity Hourly Average(%)	58	57	66	60	(1)	56	65	55	57	35	38	44

* Data questionable, in review.

(1) Less than 75% data

(10 Meter Height)

(1979 - 1980)

ITEM	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT
Temperature, Hourly Maximum (°C)	9	10	5	8	7	21	24	31	32	32	(2)	(2)
Temperature, Hourly Minimum (°C)	-28	-24	-24	-27	-21	-15	-7	-4	7	-2	(2)	(2)
Temperature, Hourly Average (°C)	-10	-8	(1)	-6	-5	1	6	15	(1)	(1)	(2)	(2)

(1980-1981)

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
Temperature, Hourly Maximum (°C)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(1)	32.8	27.3	23.1
Temperature, Hourly Minimum (°C)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(1)	2.8	0.3	-12.4
Temperature, Hourly Average (°C)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(1)	18.0	14.9	5.8

* Monitoring of Temperature at Station AD42 was initiated on 2/01/78

(1) 50% or less data

(2) Data not available during this report period.

Table 2.3.3.1-4

METEOROLOGICAL SUMMARY: TEMPERATURE AT STATION A056*
(10 Meter Height)

(1979 - 1980)

ITEM	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT
Temperature Hourly Maximum (°C)	10	10	6	21	20	24	25	31	28	31	(2)	(2)
Temperature Hourly Minimum (°C)	-28	-21	-19	-17	-9	-8	-6	-3	6	-1	(2)	(2)
Temperature Hourly Average (°C)	-6	(1)	(1)	6	8	10	7	15	(1)	(1)	(2)	(2)

(1980 - 1981)

ITEM	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT
Temperature Hourly Maximum (°C)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Temperature Hourly Minimum (°C)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Temperature Hourly Average (°C)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)

*Monitoring of temperature at Station A056 was initiated February 1978
(1) 50% or less data
(2) Data not available for this report period.

Table 2.3.3.1-5

STATION AB23
DIRECT SOLAR RADIATION

MONTH/ YEAR	TOTAL LANGLEY FOR MONTH		AVG. DAY LIGHT HOURS/DAY	DAYLIGHT HOURS/ MONTH	UPTIME DAYLIGHT HRS/MON	CORR. FACTOR = ⑤/⑥	AVG. LANGLEY/ DAY (MOD)	DAILY TOTAL/DAY	
	UNMOD.	MOD.*						HIGHEST	LOWEST
①	②	③=2x7	④	⑤	⑥	⑦	⑧/DAY	⑨	⑩
5/81	6760	8382.4	14	43.4	350	1.24	349.3	399/4	74/3
6/81	12079	18118.5	15	450	300	1.50	754.9	709/16	401/28
7/81	14546	16727.9	15	465	405	1.15	539.6	681/4	215/16
8/81	12508	10750	14	434	373	.86	448.0	623/5	214/21
9/81	10193	10906.5	13	390	365	1.07	363.6	524/1	271/29
10/81	7806	8040.2	12	372	362	1.03	259.4	421/1	61/24

Table 2.3.3.1-6

STATION AD42 *

TOTAL SOLAR RADIATION

MONTH/ YEAR	TOTAL LANGLEY FOR MONTH		AVG. DAY LIGHT HOURS/DAY	DAYLIGHT HOURS/ MONTH	UPTIME DAYLIGHT HRS/MON	CORR. FACTOR = ⑤⑥	AVG. LANGLEY/ DAY (MOD)	DAILY		TOTAL/DAY
	UNMOD.	MOD.*						HIGHEST	LOWEST	
①	②	③=2x7	④	⑤	⑥	⑦	⑧/DAY	⑨	⑩	
8/81	19616	19616	14	434	434	1.00	632.8	939/4	253/10	
9/81	19610	19610	13	390	390	1.00	653.7	889/17	222/5	
10/81	14209	14209	12	372	372	1.00	458.4	752/1	113/24	

*Station initiated July 25, 1981

STATION: WR01

MINIMUM TEMPERATURE (DegF)

YEAR: 1981

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	8	9	11	14	27	36	54	38	38			
2	10	-12	16	18	41	33	52	39	40			
3	13	-8	19	29	39	41	40	40	40			
4	14	-4	24	14	28	35	38	42	33			
5	15	-6	15	3	23	34	42	37	44			
6	9	-4	19	20	27	38	42	34	45			
7	2	-4	24	26	22	43	44	35	41			
8	1	2	10	23	23	43	45	36	33			
9	1	9	10	20	27	43	46	40	37			
10	5	-2	15	22	20	39	44	41	43			
11	0	-19	13	23	30	36	46	40	38			
12	-1	-5	21	21	23	39	49	43	32			
13	-3	8	15	34	21	38	52	38	34			
14	-2	9	15	18	26	26	53	37	34			
15	1	19	16	27	33	23	41	40	30			
16	4	18	17	26	36	21	41	42	30			
17	4	19	21	29	33	31	49	34	22			
18	6	16	12		31	30	44	35	23			
19	3	17	18	27	33	37	43	35	29			
20	5	17	30	24	45	35	35	38	34			
21	2	8	27	22	29	37	37	38	39			
22	1	5	19	24	34	35	41	38	38			
23	1	10	23	19	39	36	36	38	35			
24	6	14	27	25	28	38	38	40	39			
25	5	14	18	34	32	37	43	38	33			
26	-2	20	23	30	39	49	44	31	22			
27	4	17	28	26	44	48	34	40	23			
28	14	11	22	24	39	50	36	37	25			
29	18		17	25	38	42	40	41	26			
30	19		18	28	33	42	41	46	34			
31	9		-1		42		44	40				
Avg.	5.5	6.4	18.1	23.3	31.8	37.2	43.0	38.4	33.8			

Table 2.3.3.1-8

STATION: WR01

MAXIMUM TEMPERATURE (DegF)

YEAR: 1981

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	58	29	54	43	75	71	89	90	79			
2	54	28	48	57	79	74	72	87	82			
3	55	39	49	63	77	79	78	91	84			
4	52	44	44	34	49	65	83	90	79			
5	52	38	47	37	62	71	86	90	84			
6	34	43	51	50	69	77	92	94	68			
7	40	40	42	60	64	84	94	88	69			
8	46	41	39	46	55	86	92	86	72			
9	48	45	46	53	47	88	89	87	78			
10	51	44	49	65	56	84	91	79	75			
11	48	15	51	64	66	86	90	63	69			
12	46	36	48	67	57	87	86	69	74			
13	42	45	49	64	60	84	81	77	78			
14	44	52	51	65	68	71	79	69	80			
15	49	55	52	69	74	55	87	76	80			
16	47	52	55	64	67	65	88	78	81			
17	41	58	54	67	57	77	78	84	78			
18	48	55	41		53	79	77	84	79			
19	48	58	43	73	65	78	85	87	83			
20	46	60	54	66	71	85	86	84	82			
21	48	38	46	62	65	89	91	87	81			
22	50	38	44	62	58	86	92	73	80			
23	55	49	53	62	58	88	90	82	81			
24	59	61	58	59	66	91	88	85	79			
25	46	60	45	66	68	90	85	79	73			
26	38	60	46	75	70	94	86	88	72			
27	33	48	63	77	70	91	78	88	69			
28	46	49	47	75	71	85	78	86	79			
29	50		37	72	68	80	84	86	80			
30	44		49	68	69	84	87	80	77			
31	41		32	74	76		88	84				
	47.1	45.7	48.3	62.0	64.8	80.8	85.5	82.9	77.5			

STATION: WR02

MINIMUM TEMPERATURE (DegF)

YEAR: 1981

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	16	16	23	12	39	41	57	55	41			
2	19	-8	22	11	42	42	55	50	43			
3	19	2	25	29	35	46	46	51	41			
4	23	5	29	19	25	40	47	52	44			
5	29	2	21	9	22	44	49	52	42			
6	13	12	25	17	30	46	50	46	38			
7	11	5	26	30	25	33	55	51	39			
8	9	13	24	29	30	50	58	52	39			
9	13	24	17	11	32	55	55	46	40			
10	15	3	21	19	28	48	49	42	39			
11	11	-9	21	17	23	47	53	46	41			
12	9	12	31	28	30	40	56	47	41			
13	7	13	23	40	29	48	57	45	43			
14	9	17	22	29	30	33	58	44	41			
15	19	18	22	34	43	30	51	41	40			
16	20	23	20	24	36	31	52	42	38			
17	20	26	24	35	36	44	54	39	40			
18	17	26	15	37	36	40	50	43	38			
19	14	26	22	22	39	42	49	43	38			
20	17	26	11	14	38	44	45	42	39			
21	11	9	26	27	28	46	45	41	42			
22	12	14	18	32	44	43	47	40	43			
23	13	20	27	28	44	48	47	42	44			
24	10	18	30	34	35	45	49	41	43			
25	12	19	52	35	39	46	43	43	41			
26	4	19	16	35	46	55	50	48	33			
27	18	30	17	36	48	53	43	49	40			
28	27	21	26	33	43	55	45	45	42			
29	27		20	35	46	48	49	43	42			
30	20		26	37	39	49	53	40	43			
31	16		6		50		50	40				
Avg.	15.5	14.4	22.84	26.60	35.81	44.40	50.55	45.19				

STATION: WR02

MAXIMUM TEMPERATURE (DegF)

YEAR: 1981

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	55	31	48	56	81	75	87	86	82			
2	55	35	51	62	79	78	79	90	80			
3	52	42	42	52	64	75	81	91	82			
4	50	37	46	35	62	72	85	90	83			
5	44	38	51	50	70	78	90	93	82			
6	38	40	47	60	69	84	93	93	71			
7	43	38	42	59	62	85	91	84	67			
8	45	41	43	52	53	85	88	87	77			
9	48	40	49	65	56	83	90	78	76			
10	48	34	52	69	66	85	84	70	72			
11	47	39	44	67	61	87	86	67	77			
12	47	44	49	65	58	86	82	76	78			
13	47	51	51	66	56	85	81	78	79			
14	48	55	52	70	73	73	85	76	81			
15	50	54	54	65	72	65	86	80	80			
16	45	53	56	65	67	76	86	81	79			
17	48	51	48	71	50	79	76	83	80			
18	47	53	45	74	65	80	83	84	83			
19	46	59	53	68	70	86	87	85	83			
20	49	52	50	61	69	88	89	86	82			
21	50	38	46	63	55	87	92	83	80			
22	55	46	51	55	58	88	92	82	81			
23	59	57	55	68	65	90	89	86	80			
24	46	59	51	75	70	90	83	79	80			
25	40	58	55	76	67	93	85	86	72			
26	33	58	63	75	68	90	76	90	70			
27	41	51	57	74	70	85	78	91	80			
28	47	54	41	71	71	79	86	86	80			
29	47		50	76	70	85	85	78	76			
30	38		44	76	77	87	86	81	73			
31	39		41		75		90	78				
Avg	46.7	46.7	49.26	64.7	66.1	82.63	85.52	83.16				

STATION: WR02

SNOWFALL (INCHES)

YEAR: 1981

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1		4.0										
2												
3			1.2	3								
4				1								
5	2.3											
6												
7			6									
8												
9												
10		5.0										
11												
12												
13												
14												
15												
16												
17			6.2									
18			1									
19												
20		1.5										
21			2.2									
22												
23												
24			3									
25	1.0											
26												
27			2									
28			2									
29	.2											
30	4.0		7									
31			2									
TOTAL	7.5	10.5	32.6	4								

COLORADO CLIMATOLOGICAL DATA

Table 2.3.3.1-12

STATION: WR02

SNOW ON GROUND (INCHES)

YEAR: 1981

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1		4										
2		4										
3		3		2								
4		3		2								
5	2	2										
6		2										
7		1	2									
8			1									
9												
10		5										
11		4										
12		3										
13		1										
14												
15												
16												
17			5									
18			2.2									
19			1									
20		2										
21			2									
22												
23												
24			1.2									
25												
26												
27												
28			1									
29												
30	3		6									
31	2		3									
TOTAL	7	34	24.4	4								

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2.3.3.2 Precipitation

This section includes precipitation data monitored at two Cathedral Bluffs stations and surrounding USGS monitoring stations. Tables 2.3.3.2-1 presents a summary of precipitation monitored at station AB20 and AB23. Diurnal tables of these two stations for May 1981 through October 1981 are presented in the following monthly data reports. USGS precipitation data are reported for the following stations:

<u>Station & Designation</u>	<u>Computer Code</u>	<u>Page No.</u>
LH	WR01	II-57
M	WR02	II-58
SG	WR03	II-59
CG	WR04	II-60
JOS	WR05	II-61
EFPC	WR06	II-62
EMFPC	WR07	II-63
UCBW	WR08	II-64
09306015	WU15	II-66
09306022	WU22	II-67
09306050	WU50	II-68
09306058	WU58	II-70

Figure 2.2-1 shows monitoring stations presented in this section.

Table 2.3.3.2-1

SUMMARY OF PRECIPITATION AT TWO STATIONS
(Measured with weighing rain gauge)

(1979-1980)

STATION	ITEM	MONTH											
		NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT
AB20	1-Hour Max. (Cm)	.89	.15	.36	.51	.25	.36	.55	.03	.46	.38	.43	.51
	Date Time (MST)	11/20/79 1000	12/10/79 2300	1/29/80 0900	2/18/80 1700	3/06/80 1000	{ (2)	5/07/80 2000	(4)	7/11/80 1900	(6)	9/2/80 2300	10/14/80 2100
AB23	1-Hour Max. (Cm)	1.07	.18	.33	.46	.30	.33	.18	.05	.41	.28	.38	.46
	Date Time (MST)	11/22/79 1100	12/11/79 1100	1/19/80 0500	2/19/80 1000	{ (1)	4/29/80 2100	{ (3)	6/9/80 0100	7/23/80 1700	8/15/80 0500	9/10/80 1300	10/14/80 1700
AB20	24-Hour Max. (Cm)	2.03	.33	1.45	.97	1.09	1.09	1.96	.03	1.37	.76	.51	1.93
	Date	11/20/79	12/27/79	1/28/80	2/18/80	3/25/80	4/29/80	5/07/80	(5)	7/12/80	8/23/80	9/8/80	10/14/80
AB23	24-Hour Max. (Cm)	1.17	.41	1.19	.63	.94	1.22	1.14	.05	.41	.56	.43	2.01
	Date	11/22/79	12/11/79	1/28/80	2/23/80	3/25/80	4/29/80	5/11/80	6/9/80	7/23/80	8/15/80	9/10/80	10/14/80
AG20	Total (Cm)	5.65	1.07	4.27	3.61	5.82	1.98	5.92	.13	3.48	2.49	1.24	3.89
AB23	Total (Cm)	5.33	1.14	2.84	3.53	5.74	2.24	2.26	.15	1.65	1.57	.94	2.97

(1960-1981)

STATION	ITEM	MONTH											
		NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT
AB20	1-Hour Max. (Cm)	.25	.23	.10	.08	.33	.38	.69	.43	.41	.76	.51	1.07
	Date Time (MST)	(7)	12/23/80 0600	1/5/81 0200	(10)	3/30/81 1200	4/3/81 0900	5/28/81 1900	6/3/81 0200	7/11/81 2100	8/25/81 1700	9/30/81 2000	10/30/81 0200
AB23	1-Hour Max. (Cm)	.33	.15	.25	.13	.25	.25	.63	.94	.33	.86	.76	.63
	Date Time (MST)	(8)	(9)	1/5/81 0500	2/10/81 1900	3/30/81 1600	(11)	5/5/81 2300	6/28/81 1900	7/9/81 1900	8/24/81 1300	9/24/81 1200	10/15/81 0900
AB20	24-Hour Max. (Cm)	.86	.36	.63	.20	1.07	1.02	2.4	.97	.63	.81	.76	2.08
	Date	11/12/80	11/23/80	1/5/81	2/10/81	3/30/81	4/3/81	5/3/81	6/3/81	7/9/81	8/25/81	9/30/81	10/31/81
AB23	24-Hour Max. (Cm)	1.09	.43	.84	.41	.97	1.14	2.01	1.55	.51	.86	1.02	1.97
	Date	11/11/80	12/07/80	1/5/81	2/10/81	3/30/81	4/3/81	5/3/81	6/28/81	7/24/81	8/24/81	9/24/81	10/15/81
AB20	Total (Cm)	1.47	.86	1.30	.46	4.01	1.40	7.09	2.13	3.73	2.67	1.83	10.13
AB23	Total (Cm)	1.73	.94	1.68	.86	3.20	1.52	6.22	3.38	3.20	1.80	2.97	7.75

- (1) The 1-hour max. for March at Station AB23 occurred 2 times: 3/16/80 @ 0100; 3/26/80 @ 0700
 (2) The 1-hour max. for April at Station AB20 occurred 2 times: 4/29/80 @ 2100 and 2200
 (3) The 1-hour max. for May at Station AB20 occurred 2 times: 5/11/80 @ 1900; 5/12/80 @ 0100
 (4) The 1-hour max. for June at Station AB20 occurred 5 times: 6/16/80 @ 2200; 6/21/80 @ 1600; 6/22/80 @ 1500; 6/24/80 @ 0800; 6/25/80 @ 0800
 (5) The 24-hour max. for June at Station AB20 occurred 5 times: 6/16/80 @ 2200; 6/21/80 @ 1600; 6/22/80 @ 1500; 6/24/80 @ 0800; 6/25/80 @ 0800
 (6) The 1-hour max. for July at Station AB20 occurred 2 times: 7/15/80 @ 0500; 7/23/80 @ 2200
 (7) The 1-hour max. for Aug. at Station AB20 occurred 2 times: 11/12/80 @ 2200 & 2400
 (8) The 1-hour max. for Nov. at Station AB23 occurred 2 times: 11/11/80 @ 1900 & 2200
 (9) The 1-hour max. for Dec. at Station AB20 occurred 2 times: 12/07/80 @ 1100; 12/23/80 @ 0500
 (10) The 1-hour max. for Feb. at Station AB20 occurred 2 times: 2/10/81 @ 0100; 2/26/81 @ 0900
 (11) The 1-hour max. for April at Station AB23 occurred 3 times: 4/3/81 @ 0900, 1000, 1100

STATION: WRO1

PRECIPITATION (Inches)

YEAR: 1981

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1		.10				.03		1.07	T			
2							.03	.02				
3			.11		.89	.21			.10			
4			.09	.04		.08			.02			
5	.08			.01								
6	.02				.27				.14			
7	T		.62		.06	.06			.02			
8			T	.02								
9			T		.10							
10		.55										
11						.03		.09				
12					.16		.11	.04	.04			
13							.28	.11	.04			
14							T					
15		.02		T				.41	T			
16				.06	.14			T				
17			.32		.52							
18		T	.08		.17							
19				.02								
20												
21		.06	.17						.08			
22				.08	.08			.02				
23												
24			.03									
25	.04		.32		.06							
26					.07				T			
27		.03	.19		.02	.38						
28			.42		.16	.25						
29	.06		.04		.12	.07						
30			.32		.11			.22				
31			.11		.27	1.11		.16				
TOTAL	.20	.76	2.82	.23	3.20		1.44	2.14	.44			

STATION: WR02

PRECIPITATION (Inches)

YEAR: 1981

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1		.16	1.0									
2					T		.02					
3			.06	.20	1.40	.17			T			
4				.03								
5	.17											
6					.45	.11			.10			
7			.55		.03				.07			
8					.01							
9									.15			
10		.15					.02	.09	.13			
11					.20			T	.01			
12			T				.09	T				
13							.27	.17				
14									.01			
15								.60				
16					.26			.07				
17			.43		.24		.04					
18			.02		.02							
19				T								
20		.04										
21		T	.29						T			
22				.16	.13							
23							.04					
24			.14				.29	.02				
25	T											
26		T			.05	.02	.50		T			
27			.08			.27						
28			.25		.03	.15						
29	.02							.30				
30	.09		.40					.05				
31	T		T		.15			T				
TOTAL	.28	.35	3.22	.39	2.97	0.72	1.27	1.30	0.47			

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

STATION: WR03

Precipitation (Inches)

YEAR: 1981

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	No Record Clock Stopped 12-4 to 1-12 .10 accumulation precip=.55"	.12										
2			.18		.40	.23			.25	.22		
3			.10	.45	.47	.01				.44		
4			.27	.05						.37		
5					.33				.23	.07		
6			.36		.10				.17			
7			.02						.18	.27		
8					.17					.19		
9									.15			
10		.12						.17	.07			
11										.41		
12							No Record	.10		.29		
13	No Record				.13					.10		
14				.05			No		.20	.03		
15				.05	.05			.22		.59		
16			.14		.15					.06		
17			.05		.24							
18												
19												
20		.13	.20		.42				.08			
21		.03	.04	.05	.10			.13				
22												
23							.13					
24			.10		.07		.28	.50		.15		
25	.01						.18	.11				
26		.32	.40			.10						
27			.20		.02	.20						
28			.15		.05	.07		.22		.15		
29	.18		.14					.13	@1600	@1400		
30	.08		.27		.10			.15				
31	.25				.04							
TOTAL												

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

STATION: WR04

Precipitation (Inches)

YEAR: 1981

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1		.10									.28	
2			.27						.07	.50	.82	
3			.09	.80			.05			.60		
4	.07		.02							.85		
5	.21						.03	.02	.48	.09		
6			.93									
7			.01	.10					.78			
8			.15					.02		.43		
9		.12	.03									
10								.23	.10			
11										.17		
12								.95		.90		
13								.10	.04	.02		
14	.01								.12	.05		
15	.02			.15				.08		.56		
16			.40	.05						.11		
17			.17							.05		
18				.03								
19												
20		.05	.42						.18			
21								.10				
22												
23												
24	.13		.20									
25						.05				.15		
26		.28	.20									
27			.20									
28			.05									
29	.20		.20					.33		.14		
30	.12		.28					.45				
31	.35						.03	.03				
TOTAL	1.11	0.55	3.62	1.13	2.95							

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

STATION: WR05

Precipitation (Inches)

YEAR: 1981

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1						.03	.15					
2					.45	.12	.13			.20		
3				.65	.90	.79	.03			.60		
4				.15	.05					.18		
5	.26								.04			
6					.47				.16			
7			.17						.03			
8			.06		.10					.17		
9					.10		.64		.20			
10									.06			
11					.25		.13			.43		
12							.20			.25		
13							.04			.11		
14						.03						
15				.06						.77		
16					.20					.02		
17		Clock Stopped @2.36"	.25		.26		.40			.12		
18			.14							.01		
19				.13								
20					.02							
21			.15		.18							
22			.22		.28							
23					.02		.30	3.02"				
24							.10			.30		
25			.25		.07		.07			.01		
26			.03		.02	.25	.12					
27			.11		.05	.87						
28			.10		.02	.55				.15		
29			.26		.06					.20		
30			.04							.27		
31					.26							
TOTAL	.26		1.78*	.99	3.76	2.64	2.40	3.02	.49*	4.29		

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

STATION: WR06

Precipitation (Inches)

YEAR: 1981

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1							.10			.01		
2					.65	.09	.05		.08	.17		
3				.72	.65	.35	.05		.01	.87		
4			↓	.08						.35		
5	.30				.32				.06	.10		
6			.19		.18				.13			
7			.03				—		.01			
8					.06					.18		
9					.12		.46	.01	.44			
10								.21	.01			
11					.22		.06	.06		.40		
12							.12	.06		.18		
13								.01		.11		
14				—					.17	.01		
15	.05			.11	.06			.57		.82		
16	.11		.29		.12			.13		.11		
17			.02		.28		.23			.01		
18				.05	.01		.01	.02		.01		
19									.03			
20			.16		.13							
21			.21		.27							
22					.39							
23							.31	.02				
24			.13				.25			.18		
25					.05		.05	.03		.01		
26			.10			.15	.07					
27			.13		.06	.75		.17				
28	↑		.24			.25		—		.12		
29			.01		.27	.05		.14		.55		
30			.52					.52		@.35+		
31					.26			.02				
TOTAL	.46		2.03	.96	4.10	1.64	1.76	1.07	.94	4.54*		

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

STATION: WR07

Precipitation (Inches)

YEAR: 1981

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1		.05										
2						.75			.12	.35		
3						.06				.38		
4										.18		
5	.30								.07	.12		
6					1.42"				.20			
7									.15		.03	
8										.23		
9									.08			
10								.13	.16			
11								.02		.35		
12								.02		.12		
13										.03		
14												
15					.12			.03		.66		
16					.10			.05		.10		
17					.17							
18												
19												
20					.26							
21					.16				.04			
22					.45			.02				
23							.17	.03				
24							.34	.08		.15		
25							.07	.02		.01		
26		.37				.34	.12					
27						.31		.06				
28	.20					1.05				.12		
29					.11			.18		.35		
30	.13							.06		.24		
31	.34				.26					.09		
TOTAL	.97					2.51	1.82	0.70	.82	3.48		

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

STATION: WRO8 *

Precipitation (Inches)

YEAR: 1981

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1												
2									.12	.15		
3										.20		
4								.07		.66		
5									.19			
6												
7									.75	.08		
8										.40		
9												
10								.14	.48			
11										.70		
12								.06		.22		
13								.20		.03		
14												
15								.04		.53		
16										.03		
17												
18												
19												
20									.04			
21								.04				
22												
23												
24										.04		
25										.06		
26												
27								1200				
28												
29								.40		@1750.38		
30		Installed & started 7/30/82→					1000	.30	1145			
31							.10	.15				
TOTAL							.10	1.40	1.58	3.48		

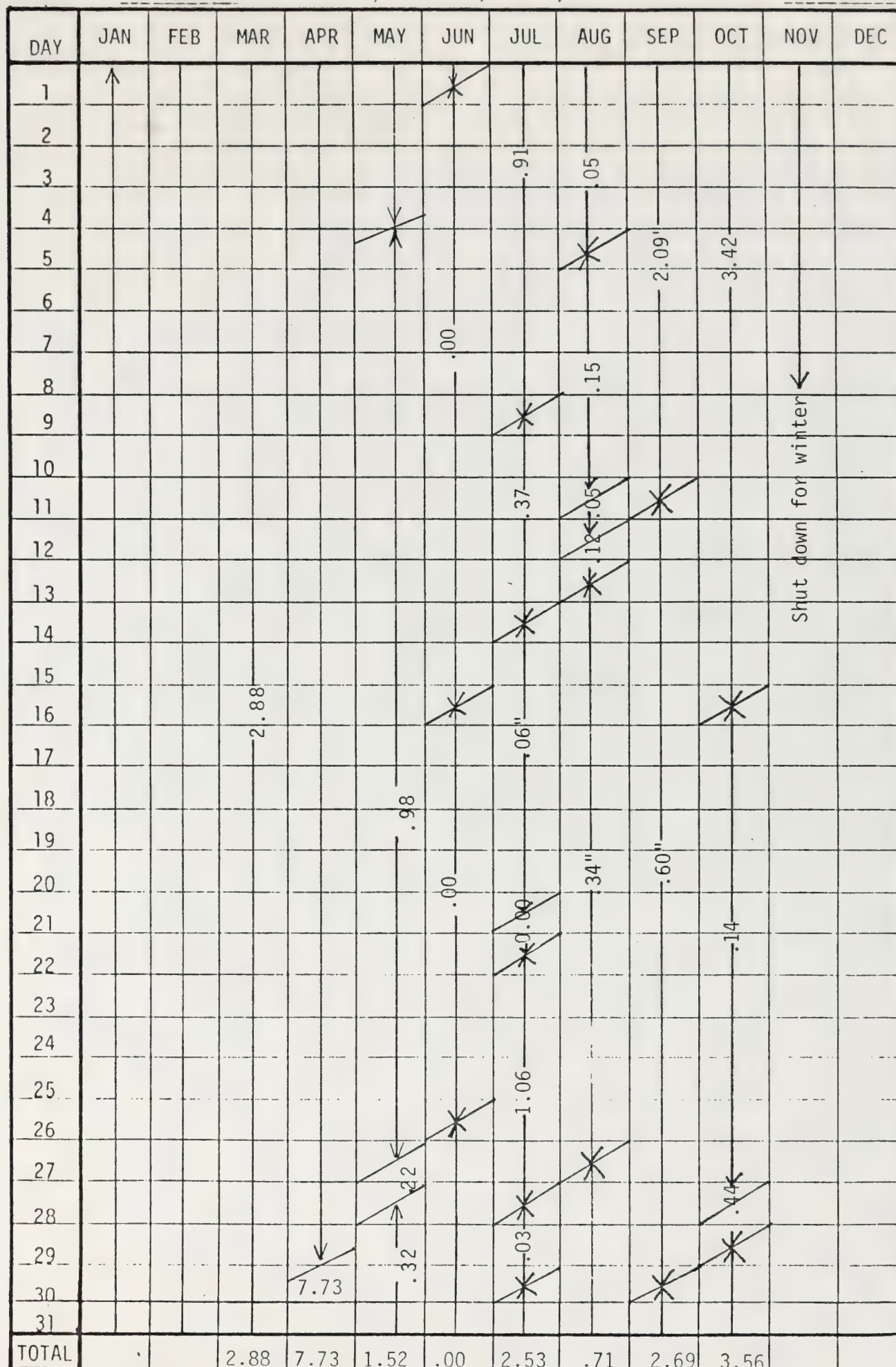
* Weighing bucket rain gage

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

STATION: WR08

Precipitation (Inches)

YEAR: 1981

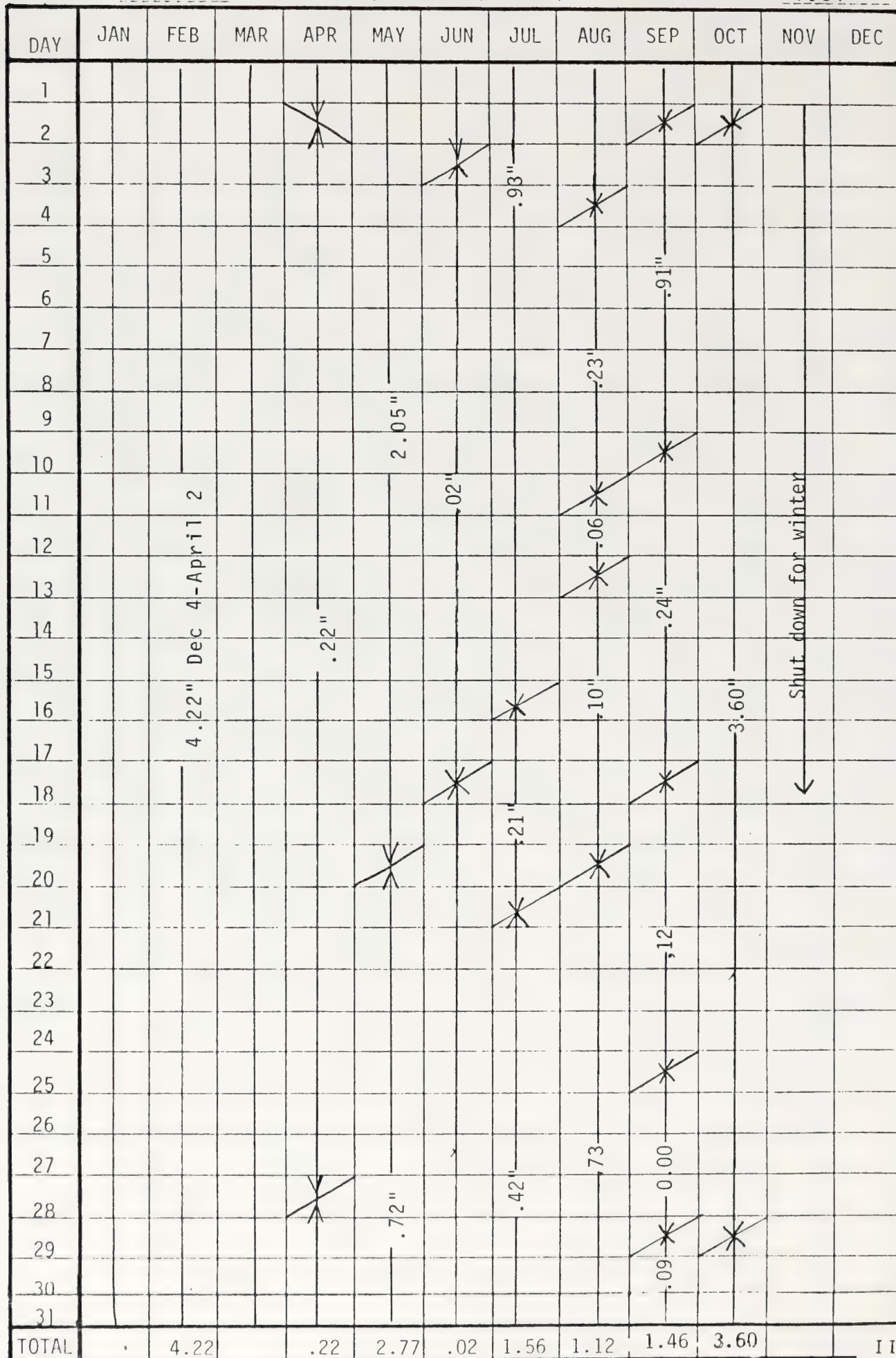


UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

STATION: WU15

Precipitation (Inches)

YEAR: 1981



UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

STATION: WU22

Precipitation (Inches)

YEAR: 1981

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1												
2												
3												
4												
5			1.11		1.83	.25"	.42	.22"				
6												
7				.30					.75"			
8										2.56"		
9												
10												
11		.25				.00"		.03"				
12					.50							
13												
14												
15			.30					.44"				
16												
17												
18				.11			.13"			.49"		
19												
20												
21												
22			.50		.27	.48"	.00"		.80"			
23												
24												
25										.33"		
26							.33"	.66"				
27												
28					.31							
29												
30												
31									.21"			
TOTAL		.25	1.91	.41	2.91	.73	.88	1.35	1.81	3.38		

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

STATION: WU50*

Precipitation (Inches)

YEAR: 1981

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1												
2										.27		
3										.18		
4										.72		
5									.27	.02		
6												
7									.02	.01		
8										.47		
9									.17			
10									.05			
11		Installed & started on 8/11/81 →							<u>930</u>	.27		
12								.08		.23		
13									.02	.07		
14												
15										.69		
16												
17										.03		
18												
19									.04			
20									.04			
21												
22												
23												
24								.15	.27	.07		
25										.03		
26												
27								<u>1600</u>				
28												
29								.25	<u>1535</u>	<u>(1310)</u>	.17	
30								.12				
31												
TOTAL								.60	.88	3.23		

* Weighing bucket rain gage

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

 STATION: WU50

Precipitation (Inches)

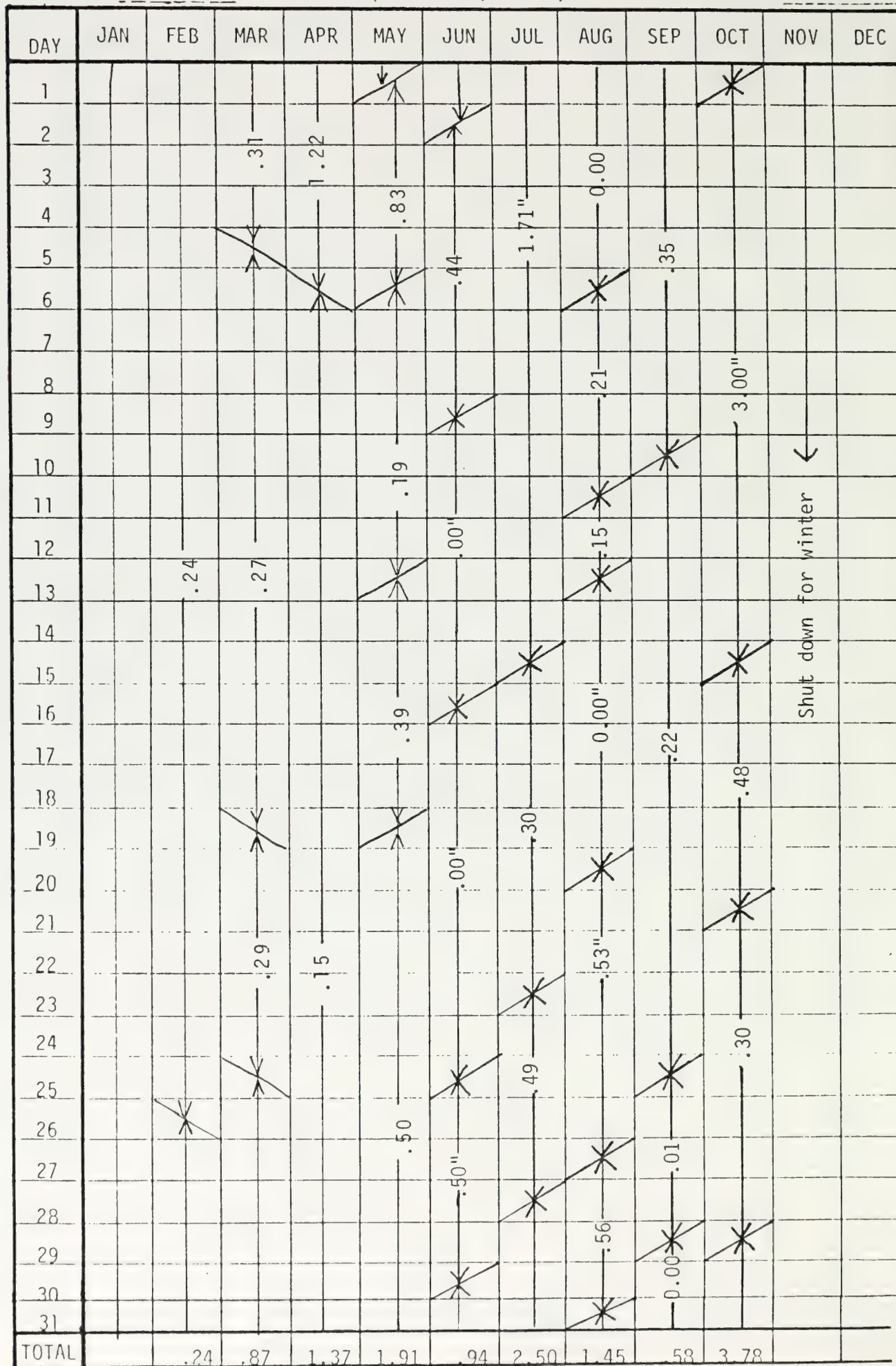
 YEAR: 1981

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1										.19		
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
TOTAL		3.99		.24	1.46	1.09	.98	.94	1.06	3.66		

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

 STATION: WU58

Precipitation (Inches)

 YEAR: 1981


2.3.3.3 Wind Fields

This section presents the wind field data collected at the meteorological tower Station AA23 and Stations AB20, AD42 and AD56. Data consist of wind speeds, wind direction, vertical variations in horizontal wind speed and wind direction and stability class. Wind flow patterns and stability class provided information for diffusion modeling and pollutant transport and concentration.

<u>Table/Figure No.</u>	<u>Description</u>	<u>Page No.</u>
Table 2.3.3.3-1	Wind Speed and Direction at Station AB20	II-73
Table 2.3.3.3-2	Wind Speed and Direction at Station AA23 (10 meter level)	II-74
Table 2.3.3.3-3	Wind Speed and Direction at Station AA23 (30 meter level)	II-75
Table 2.3.3.3-4	Wind Speed and Direction at Station AA23 (60 meter level)	II-76
Table 2.3.3.3-5	Wind Speed and Direction at Station AD42	II-77
Table 2.3.3.3-6	Wind Speed and Direction at Station AD56	II-78
<u>Meteorological Summary</u>		
Table 2.3.3.3-7	Vector Monthly Averages for Winds, Station AB20	II-79
Table 2.3.3.3-8	Vector Monthly Averages for Winds, Station AA23 (10 meter level)	II-80
Table 2.3.3.3-9	Vector Monthly Averages for Winds, Station AA23 (30 meter level)	II-81
Table 2.3.3.3-10	Vector Monthly Averages for Winds, Station AA23 (60 meter level)	II-82
<u>Direction-Only Wind Roses</u>		
Figure 2.3.3.3-1	Direction-only wind roses for Station AB20 for period January 1981 - October 1981.	II-83
Figure 2.3.3.3-2	Direction-only wind roses for Station AB23 at the 10 meter level of the meteorological tower for the period January 1981 - October 1981.	II-84
Figure 2.3.3.3-3	Direction-only wind roses for Station AD42 for period August 1981 - October 1981.	II-85
Figure 2.3.3.3-4	Direction-only wind roses for Station AA23 at the 30 meter level of the meteorological tower for the period January 1981 - October 1981.	II-86
Figure 2.3.3.3-5	Direction-only wind roses for Station AA23 at the 60 meter level of the meteorological tower for the period January 1981 - October 1981.	II-87

2.3.3.3 Wind Fields (Continued)

<u>Table/Figure No.</u>	<u>Description</u>	<u>Page No.</u>
<u>Wind Rose Diagrams</u>		
Figure 2.3.3.3-6	Quarterly wind rose for Station AB20 for the quarter beginning March 1981	II-88
Figure 2.3.3.3-7	Quarterly wind rose for Station AA23 at the 10 meter level of the meteorological tower for the quarter beginning March 1981	II-89
Figure 2.3.3.3-8	Quarterly wind rose for Station AA23 at the 30 meter level of the meteorological tower for the quarter beginning March 1981	II-90
Figure 2.3.3.3-9	Quarterly wind rose for Station AA23 at the 60 meter level of the meteorological tower for the quarter beginning March 1981	II-91
<u>Atmospheric Stability</u>		
Table 2.3.3.3-11	This table presents Pasquill-Gifford average hourly atmospheric stability class for each month. Ranges of dT/dz (variation of temperature with height) corresponding to each class are defined on the table. The source is the temperature difference from 60 meter to 10 meter on the meteorological tower, designated DT2, corrected for wind speed (10 meter).	II-92
Table 2.3.3.3-12	This table shows the stability class frequency distribution for each month.	II-93

Table 2.3.3.3-1

METEOROLOGICAL SUMMARY: WIND SPEED & DIRECTION
Station AB20

ITEM	(1979-1980)											
	MONTH											
	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT
Wind Speed, Hourly Max. (mps) & Associated Direction (Deg.)	8.0 289.0	6.0 118.5*	11.0 230.0	10.0 118.9	6.0 282.7*	7.0 275.2	8.0 155.9*	6.0 216.5*	6.0 106.0	8.0 286.5*	6.0 272.8*	8.0 286.0
Wind Speed, Hourly Avg. (mps) &	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Wind Direction Hourly Avg. (Deg)	109.0	93.0	124.0	104.0	143.0	106.0	119.0	136.0	122.0	126.0	115.0	107.0

ITEM	(1980-1981)											
	MONTH											
	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT
Wind Speed, Hourly Max. (mps) & Associated Direction (Deg.)	8.0 282.0	6.0 174.5*	6.0 294.0*	7.0 118.0	7.0 153.0	5.0 193.0	8.0 299	8.0 249.0	6.0 297.0	8.0 297.0	7.0 199.0*	5.0 187.0*
Wind Speed, Hourly Avg. (mps) &	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Wind Direction Hourly Avg. (Deg)	116.0	297.0	298.0	302.0	239.0	145.0	133.0	126.0	117.0	124.0	123.0	130.0

* Maximum wind speed was reached >1 time. Associated Direction was computed as a vector mean.

METEOROLOGICAL SUMMARY: WIND SPEED & DIRECTION
STATION AA23
(10 Meter Height)

ITEM	(1979-1980)											
	MONTH											
	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT
Wind Speed, Hourly Max. (mps)	6.0	10.0	13.0	9.0	10.0	8.0	12.0	10.0	7.0	8.0	10.0	9.0
&												
Associated Direction (Deg.)	196.6	16.0	219.0	220.0	199.0*	250.0*	195.5*	213.0*	227.5*	241.4*	234.0	01.0
Wind Speed, Hourly Avg. (mps)	2.0	2.0	3.0	2.0	3.0	2.0	3.0	3.0	2.0	3.0	3.0	2.0
&												
Wind Direction Hourly Avg. (Deg.)	186.0	186.0	231.0	208.0	240.0	246.0	215.0	225.0	217.0	227.0	238.0	245.0

ITEM	(1980-1981)											
	MONTH											
	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT
Wind Speed, Hourly Max, (mps)	8.0	11.0	9.0	8.0	10.0	8.0	10	10.0	8.0	10.0	9.0	11.0
& Associated Direction (Deg.)	218.8*	185.0	183.0	193.0	196.0	187.0	224	237.0	297.0	254.0	200.0	188.0*
Wind Speed, Hourly Avg. (mps)	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	2.0	2.0	2.0	3.0
& Wind Direction Hourly Avg. (Deg.)	203.0	207.0	227.0	299.0	230.0	233.0	221	245.0	193	201.0	209.0	208.0

* Maximum wind speed was reached >1 time. Associated direction was computed as a vector mean.

Table 2.3.3.3-3 METEOROLOGICAL SUMMARY: WIND SPEED & DIRECTION
STATION AA23
(30 Meter Height)

(1979-1980)

ITEM	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT
Wind Speed, Hourly Max. (mps)	9.0	11.0	18.0	13.0	15.0	11.0	15.0	13.0	10.0	12.0	13.0	13.0
& Associated Direction (Deg.)	199.5*	(1)	218.0	217.0	190.0	209.0	188.5	215.0	219.0*	236.0	225.0*	195.0
Wind Speed, Hourly Avg. (mps)	2.0	3.0	4.0	3.0	4.0	3.0	4.0	5.0	3.0	4.0	4.0	3.0
& Wind Direction, Hourly Avg (Deg.)	202.0	165.0	227.0	204.0	222.0	223.0	207.0	222.0	206.0	220.0	243.0	259.0

(1980-1981)

ITEM	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT
Wind Speed, Hourly Max. (mps)	12.0	16.0	12.0	11.0	13.0	12.0	13.0	13.0	10.0	14.0	13.0	15.0
& Associated Direction (Deg.)	210.6*	195.0	183.0	111.0	188.0	178.0	176.0	234.3*	291.0	251.0	197.0	173.0
Wind Speed, Hourly Avg. (mps)	3.0	3.0	2.0	2.3	3.0	4.0	4.0	4.0	3.0	3.0	3.0	3.0
& Wind Direction, Hourly Avg (Deg.)	193.0	210.0	170.0	297.0	67.0	229.0	216.0	252.0	175	169	199	203.0

* Maximum wind speed occurred >1 time. Associated Direction was computed as a vector mean.
(1) <50% Data - (Instrument Malfunction)

Table 2.3.3.3-4 METEOROLOGICAL SUMMARY: WIND SPEED & DIRECTION

STATION AA23
(60 Meter Height)

(1979-1980)

ITEM	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT
Wind Speed, Hourly Max. (mps) & Associated Direction (Deg.)	9.0 194.0*	11.0 191.7*	16.0 221.0*	12.0 220.0	12.0 208.3*	10.0 223.0	14.0 202.1*	11.0 230.0*	9.0 227.1*	11.0 245.0	12.0 241.0	12.0 209.0
Wind Speed, Hourly Avg. (mps) & Wind Direction Hourly Avg.	2.0 228.0	2.0 189.0	4.0 234.0	3.0 209.0	4.0 231.0	3.0 245.0	4.0 227	5.0 241.0	3.0 228.0	4.0 241.0	3.0 259.0	3.0 281.0

(1980-1981)

ITEM	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT
Wind Speed, Hourly Max. (mps) & Associated Direction (Deg.)	12.0 221.8*	14.0 210.0	11.0 63.0	13.0 60.0	15.0 197.0	14.0 188.0	14.0 336.0	16.0 207.0	12.0 210.0	16.0 259.0	14.0 203.0	17.0 184.0
Wind Speed, Hourly Avg. (mps) & Wind Direction Hourly Avg.	3.0 225.0	3.0 232.0	2.0 116.0	4.0 173.0	4.0 83.0	5.0 243.0	4.0 228.0	5.0 268.0	4.0 193.0	3.0 193.0	4.0 216.0	4.0 225.0

* Maximum wind speed occurred > 1 time. Associated Direction was computed as a vector mean.
(1) < 50% Data - Instrument Malfunction.

Table 2.3.3.3-5

METEOROLOGICAL SUMMARY: WIND SPEED & DIRECTION
STATION AD42

(1979-1980)

ITEM	MONTH											
	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT
Wind Speed, Hourly Max (mps) &	9	9.0	13.0	9.0	13.0	13.0	14.0	13.0	(2)	13.0	(1)	(1)
Associated Direction (Deg.)	219.7*	192.80*	230.0	239.0*	214.0	128.0	195.5*	247.0*	(2)	185.0	(1)	(1)
Wind Speed, Hourly Avg. (mps) &	2	2	2.0	3.0	3.0	3.0	4.0	4.0	(2)	4.0	(1)	(1)
Wind Direction, Hourly Avg. (Deg.)	168.0	157.0	215.0	174.0	182.0	174.0	170.0	178.0	(2)	167.0	(1)	(1)

(1980-1981)

ITEM	MONTH											
	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT
Wind Speed, Hourly Max (mps) &	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(2)	10.0	11.9	14.4
Associated Direction (Deg.)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(2)	299.0	211.0	163.0
Wind Speed, Hourly Avg. (mps) &	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(2)	2.7	2.9	2.9
Wind Direction, Hourly Avg. (Deg.)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(2)	149.0	151.0	159.0

* Maximum wind speed was reached 1 time. Associated Direction was computed as a vector mean.

(1) Data not available at report time.

(2) < 50% Data

Table 2.3.3.3-6

METEOROLOGICAL SUMMARY: WIND SPEED & DIRECTION
STATION AD56 (1)

(1979 - 1980)

ITEM	MONTH											
	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT
Wind Speed, Hourly Max. (mps)	5.0	4.0	7.0	5.0	9.0	9.0	9.0	9.0	(3)	9.0	(4)	(4)
Associated Direction (Deg.)	301.7*	172.3*	192.0	99	318.0	318.0	172.8*	194.4*	(3)	229.6*	(4)	(4)
Wind Speed Hourly Avg. (mps)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	(3)	3.0	(4)	(4)
Wind Direction, Hourly Avg. (Deg.)	169.0	167.0	187.0	163.0	183.0	175.0	161.0	168.0	(3)	165.0	(4)	(4)

(1980 - 1981)

ITEM	MONTH											
	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT
Wind Speed, Hourly Max. (mps)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
Associated Direction (Deg)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
Wind Speed Hourly Avg. (mps)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
Wind Direction, Hourly Avg. (Deg.)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)

* Maximum wind speed was reached > 1 time. Associated direction was computed as a vector mean.

(1)

(2) Monitoring of wind speed and wind direction at Station AD56 was initiated February 1, 1978.

(3) Instrument out for repair.

(4) <50% data.

(5) Data not available for this reporting period.

Table 2.3.3.3-7

METEOROLOGICAL SUMMARY: VECTOR MONTHLY AVERAGES FOR WINDS*

(10 Meter Level)

STATION AB20

(1979-1980) By Month

Item	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept.	Oct
Wind Speed (mps)	1.0	1.0	.4	.5	.6	.4	1.0	1.1	.7	.6	.4	.4
Wind Direction (Deg.)	121.0	117.0	163.0	130.0	161.0	144.0	160.0	171.0	147.0	172.0	175.0	142.0

(1980-1981) By Month

Item	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept.	Oct
Wind Speed (mps)	.9	.9	.7	1.2	.8	.7	.5	.5	.5	.5	.7	1.0
Wind Direction (Deg.)	134.0	138.0	137.0	138.0	139.0	166.0	156.0	222.0	144	140	144	135

* Monitoring of wind parameters initiated on 2/1/78.

Table 2.3.3.3-8

METEOROLOGICAL SUMMARY: VECTOR MONTHLY AVERAGES FOR WINDS
(10 Meter Level)
STATION AA23

Item	By Month											
	(1979-1980)											
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
Wind Speed (mps)	.8	.5	2.1	1.3	.7	.7	1.9	2.6	1.3	1.9	1.4	.8
Wind Direction (Deg.)	187.0	195.0	222.0	210.0	238.8	255.0	212.0	219.0	220.0	227.0	233.0	242.0

Item	By Month											
	(1980-1981)											
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
Wind Speed (mps)	1.1	1.5	0.9	1.4	1.0	1.9	1.2	1.6	0.9	.6	1.3	1.7
Wind Direction (Deg.)	214.0	204.0	221.0	210.0	210.0	221.0	220.0	245.0	206	214	210	206

Table 2.3.3.3-9

METEOROLOGICAL SUMMARY: VECTOR MONTHLY AVERAGES FOR WINDS

(30 Meter Level)

STATION AA23

(1979-1980) By Month

Item	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
Wind Speed (mps)	1.2	.8	2.9	1.9	1.3	.9	2.5	3.7	1.7	2.6	1.9	1.0
Wind Direction (Deg.)	195.0	183.0	218.0	206.0	214.0	237.0	203.0	213.0	210.0	219.0	228.0	237.0

(1980-1981) By Month

Item	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
Wind Speed (mps)	1.4	2.0	0.7	2.3	1.0	2.6	1.6	2.1	1.4	.8	1.8	2.4
Wind Direction (Deg.)	207.0	200.0	132.0	117.0	179.0	215.0	212.0	239.0	192	200	201	198

Table 2.3.3.3-10

METEOROLOGICAL SUMMARY: VECTOR MONTHLY AVERAGES FOR WINDS

(60 Meter Level)

STATION AA23

(1979-1980) By Month

Item	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
Wind Speed (mps)	.9	1.2	2.8	1.9	1.7	1.0	2.4	3.5	1.7	2.6	2.0	1.0
Wind Direction (Deg.)	204.0	195.0	221.0	211.0	222.0	252.0	219.0	228.0	228.0	234.0	242.0	252.0

(1980-1981) By Month

Item	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
Wind Speed (mps)	1.8	2.3	0.6	2.6	1.3	3.1	1.9	2.3	1.4	1.1	2.3	2.7/
Wind Direction (Deg.)	224.0	219.0	96.0	84.0	207.0	225.0	222.0	249.0	205	213	213	210

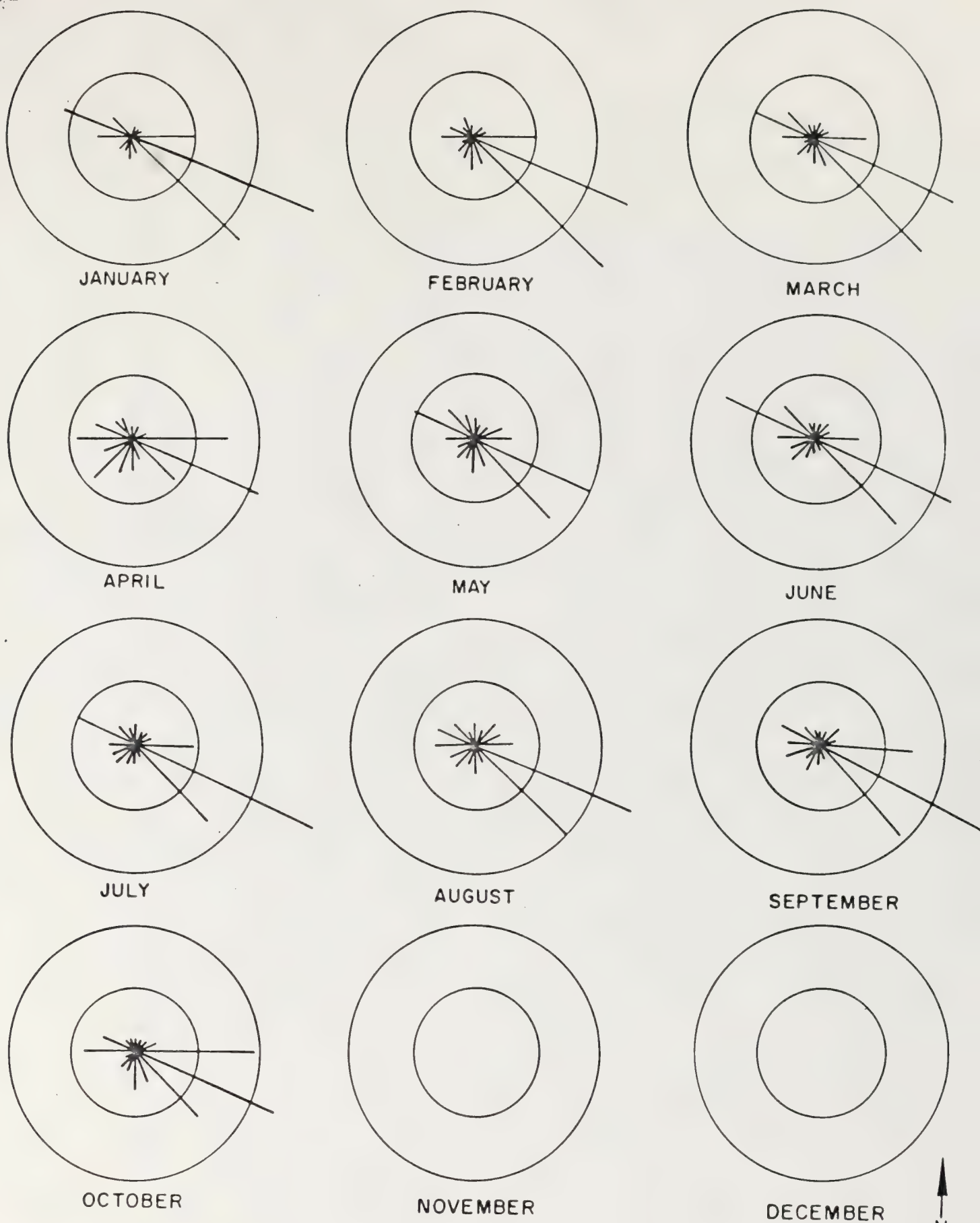


Figure 2.3.3.3-1
1981

STATION AB20 @ IOM ELEVATION WIND ROSES

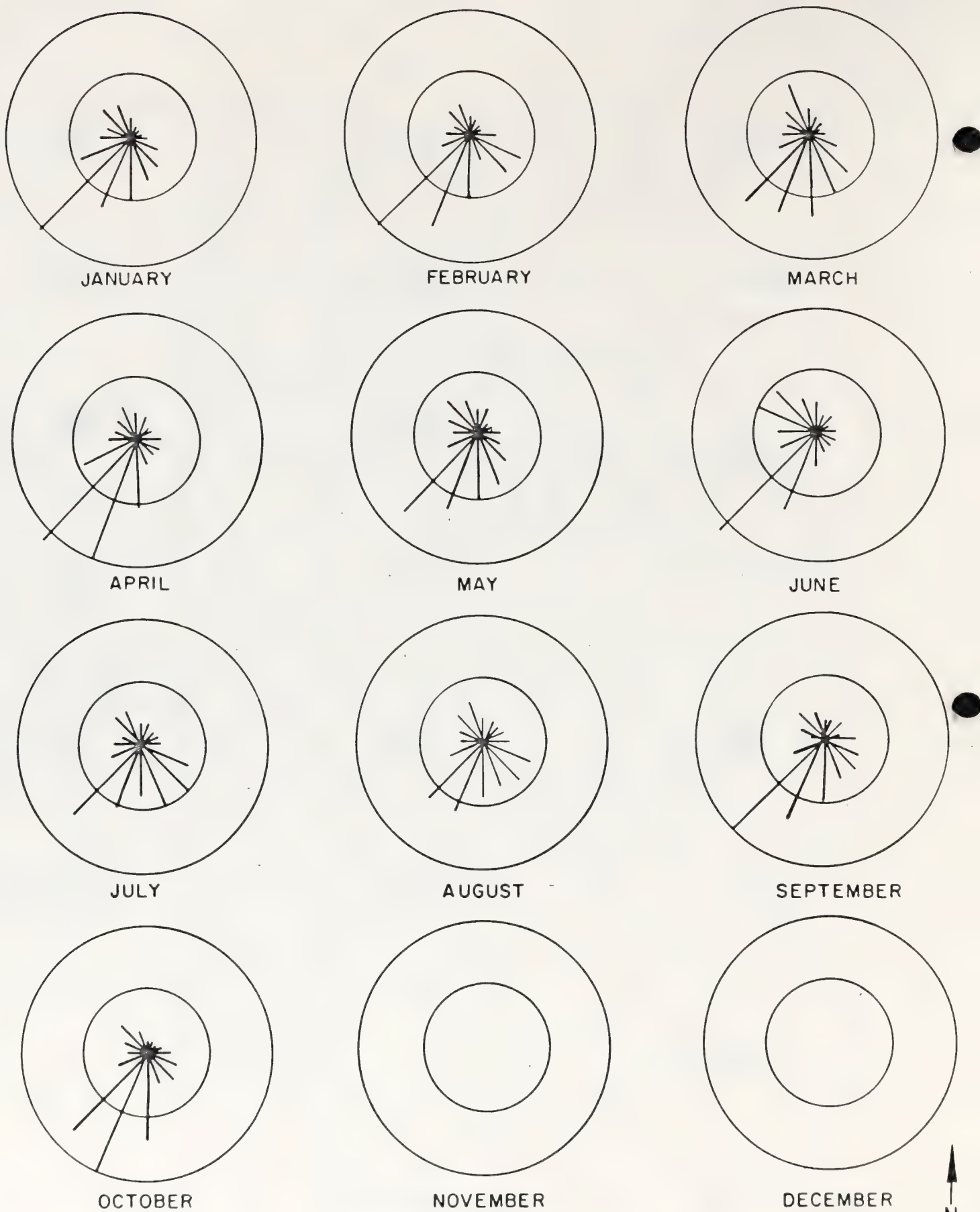
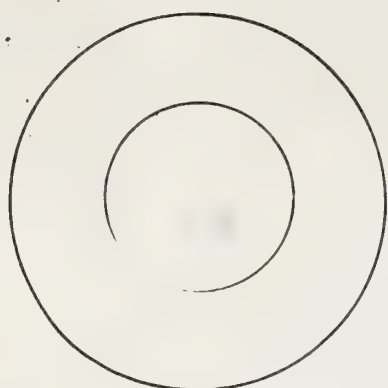
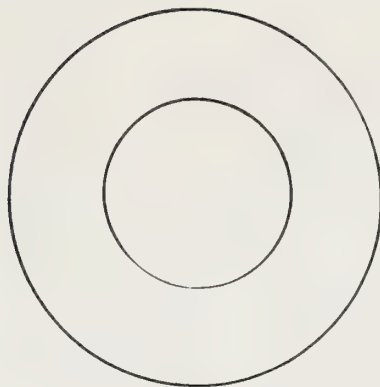


Figure 2.3.3.3-2
1981

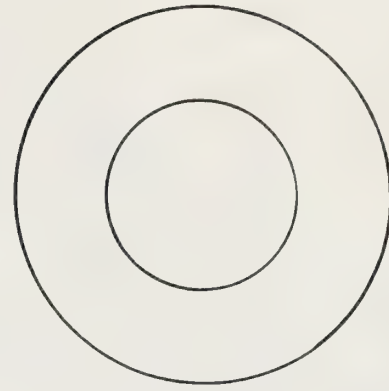
STATION AA23 @ 10M ELEVATION WIND ROSES



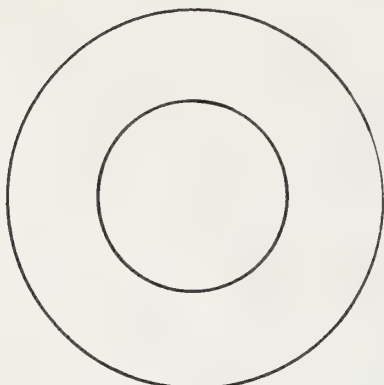
JANUARY



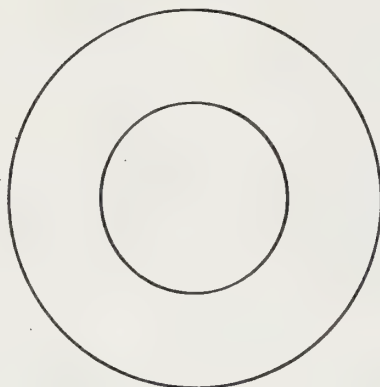
FEBRUARY



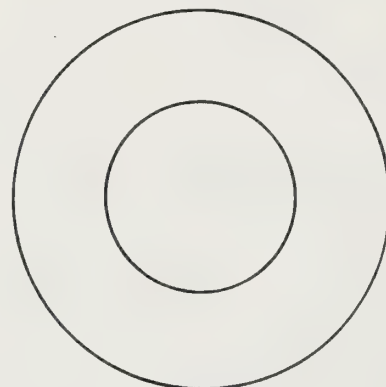
MARCH



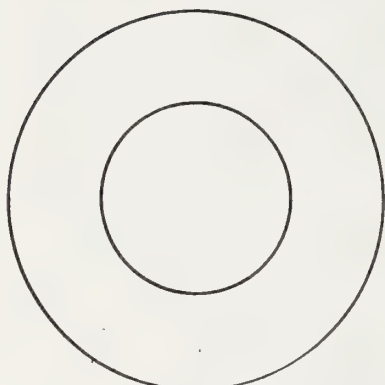
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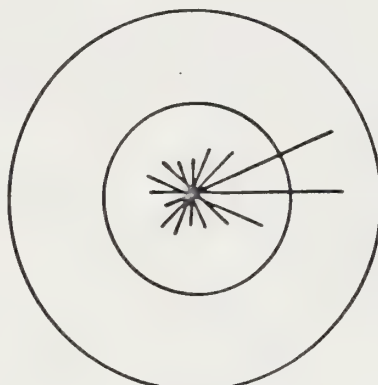
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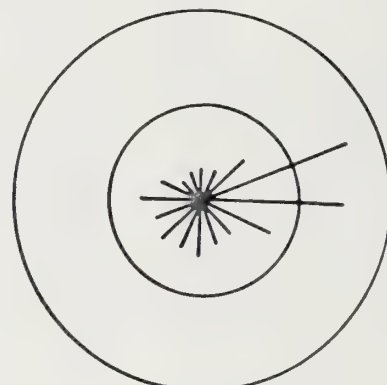
JUNE



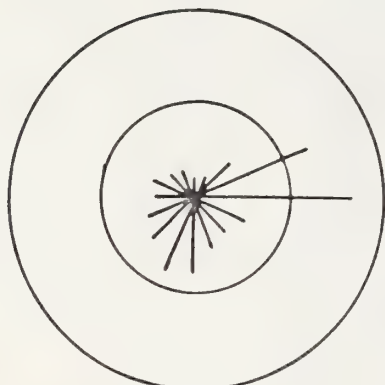
JULY



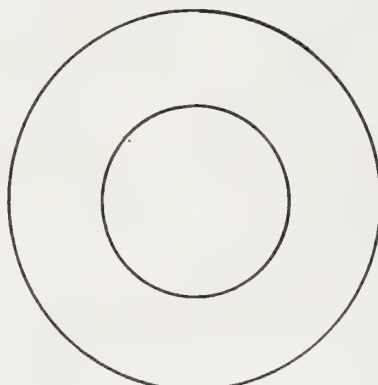
AUGUST



SEPTEMBER



OCTOBER



NOVEMBER

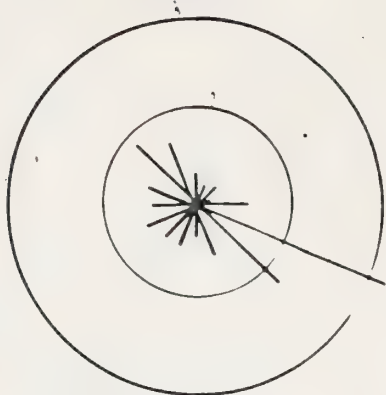


DECEMBER

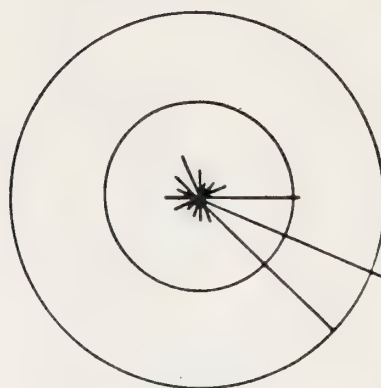


Figure 2.3.3.3-3
1981

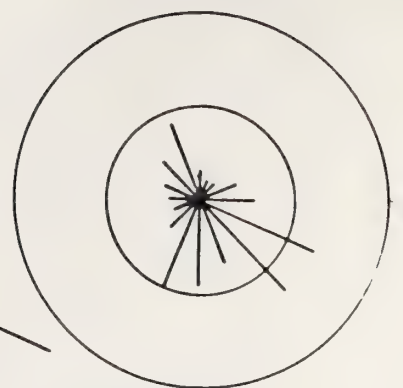
STATION AD42 @ 10M ELEVATION WIND ROSES



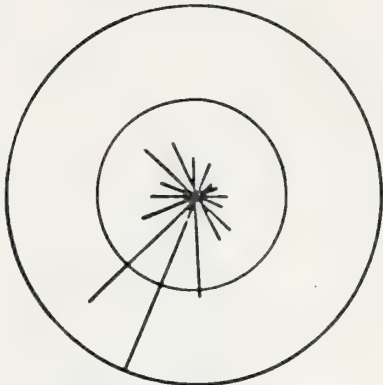
JANUARY



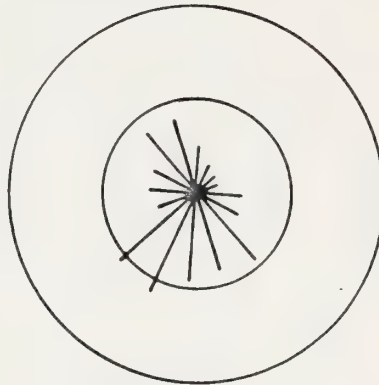
FEBRUARY



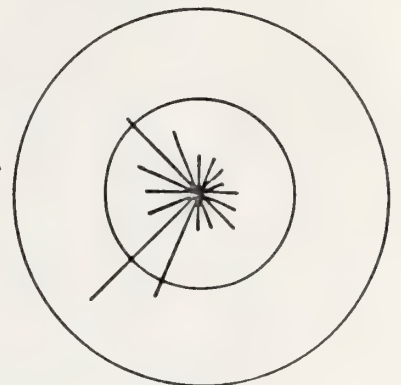
MARCH



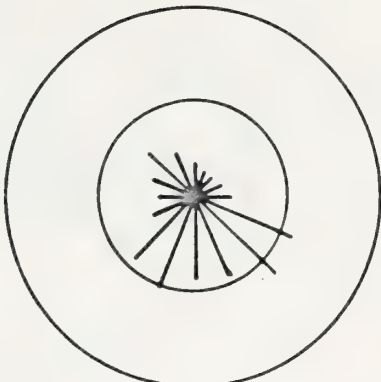
APRIL



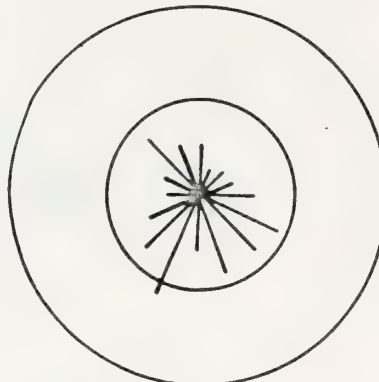
MAY



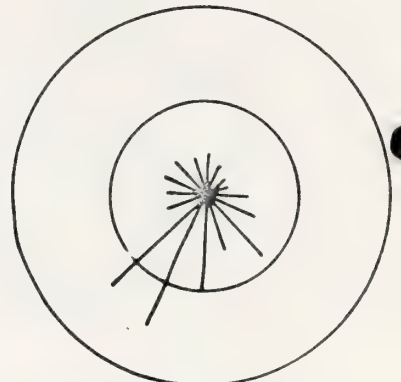
JUNE



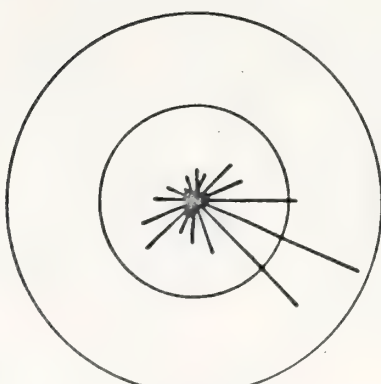
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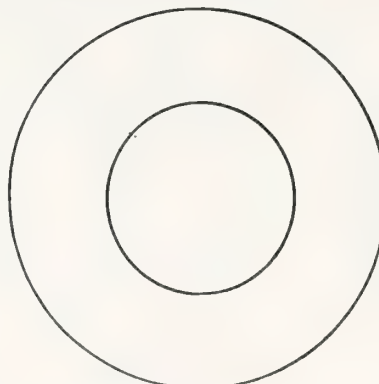
AUGUST



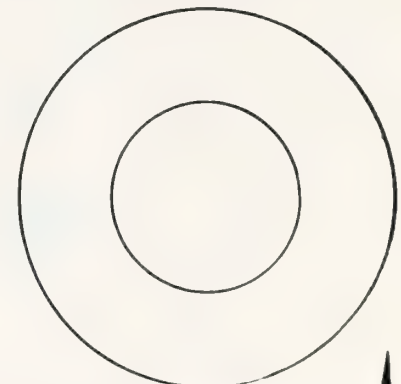
SEPTEMBER



OCTOBER



NOVEMBER



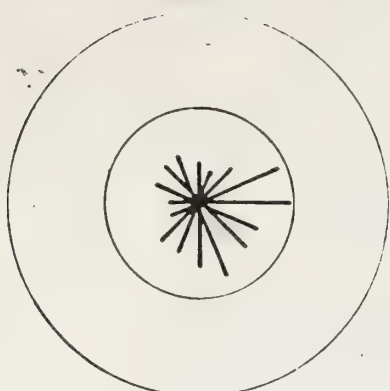
DECEMBER

Figure 2.3.3.3-4

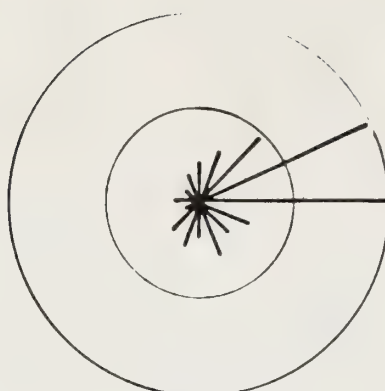
1981

STATION AA23 @ 30M ELEVATION WIND ROSES

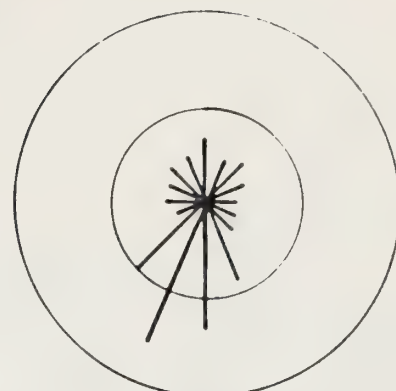




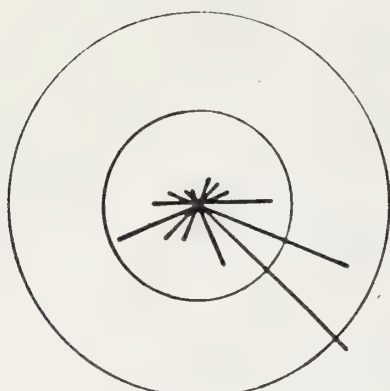
JANUARY



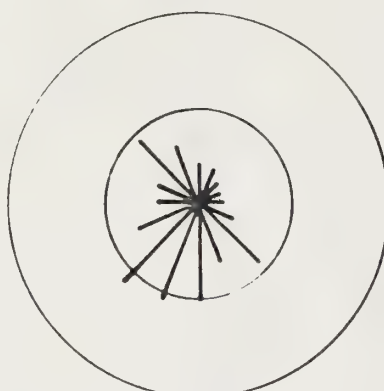
FEBRUARY



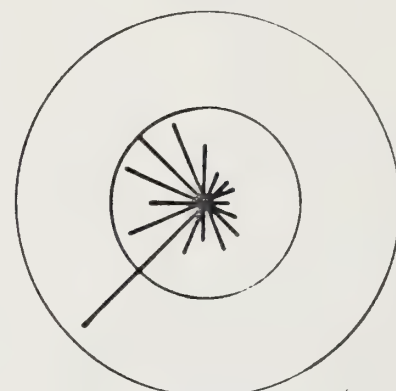
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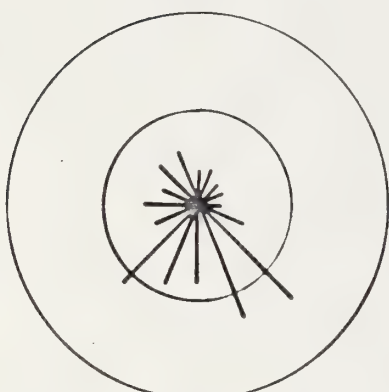
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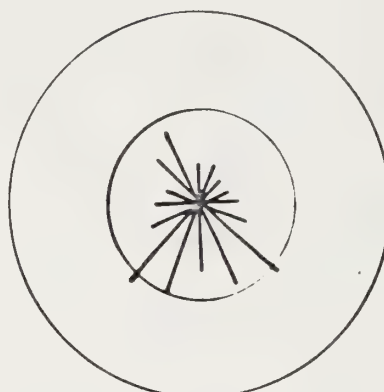
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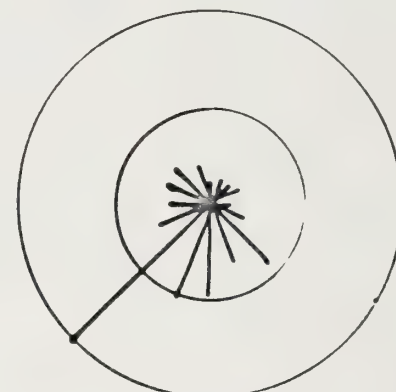
JUNE



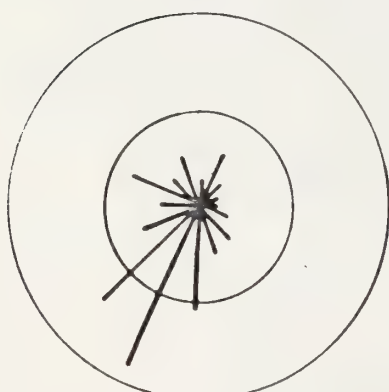
JULY



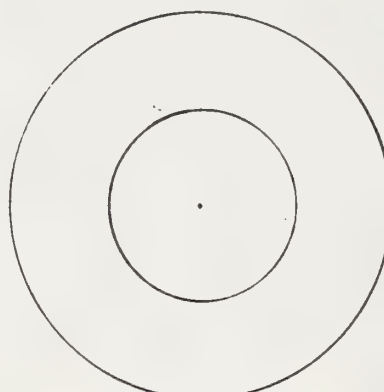
AUGUST



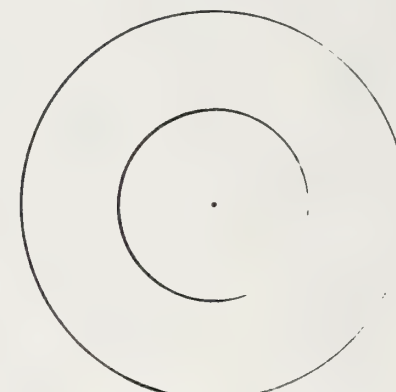
SEPTEMBER



OCTOBER



NOVEMBER



DECEMBER

Figure 2.3.3.3-5

1981

STATION AA23 a 60M ELEVATION WIND ROSES

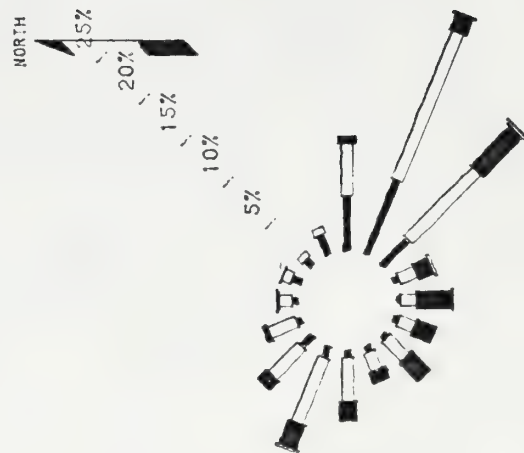


Figure 2.3.3.3-6

AB20 QUARTERLY WIND ROSE • 10M

MAR '81 -- MAY '81

TOTAL % OF CALMS DISTRIBUTED (0.33%)
TOTAL NO. OF 1-HOUR SAMPLES • 1793



JUN '81 -- AUG '81

TOTAL % OF CALMS DISTRIBUTED (0.0%)
TOTAL NO. OF 1-HOUR SAMPLES • 2123

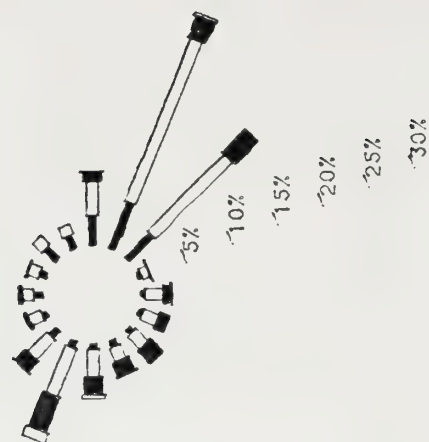


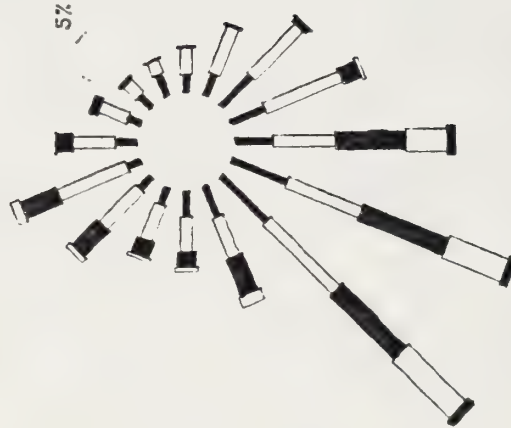
Figure 2.3.3.3-7

AA2% QUARTERLY WIND ROSE • 10M

MAR '81 ~ MAY '81

TOTAL % OF CALMS DISTRIBUTED (0.0 %)
 TOTAL NO. OF 1-HOUR SAMPLES ~ 2110

NORTH
 5%
 10%



JUN '81 ~ AUG '81

TOTAL % OF CALMS DISTRIBUTED (0.0 %)
 TOTAL NO. OF 1-HOUR SAMPLES ~ 1942

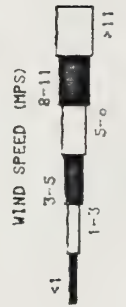
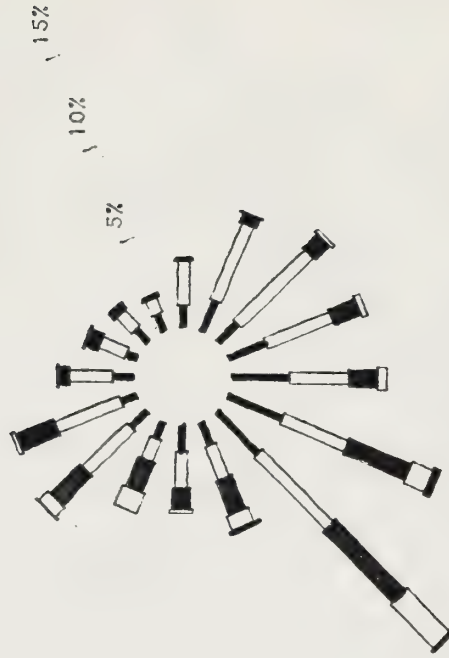
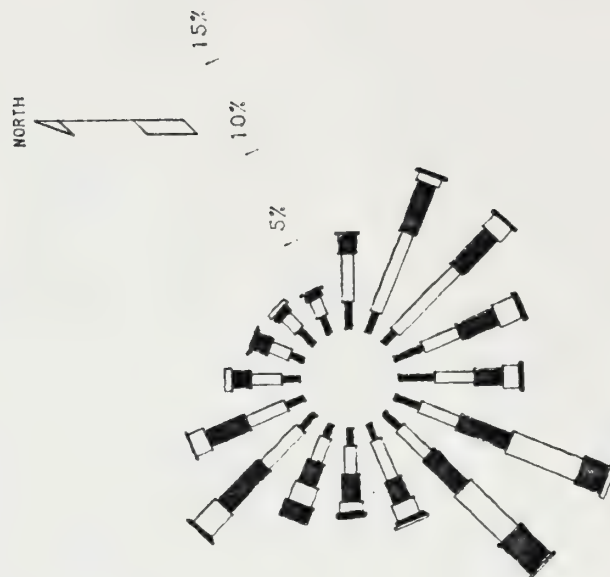


Figure 2.3.3.3-8

AA23 QUARTERLY WIND ROSE • 30M

JUN '81 - AUG '81
TOTAL % OF CALMS DISTRIBUTED (0.0 %)
TOTAL NO. OF 1-HOUR SAMPLES = 1943



MAR '81 - MAY '81
TOTAL % OF CALMS DISTRIBUTED (0.0 %)
TOTAL NO. OF 1-HOUR SAMPLES = 2102

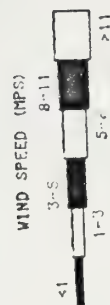
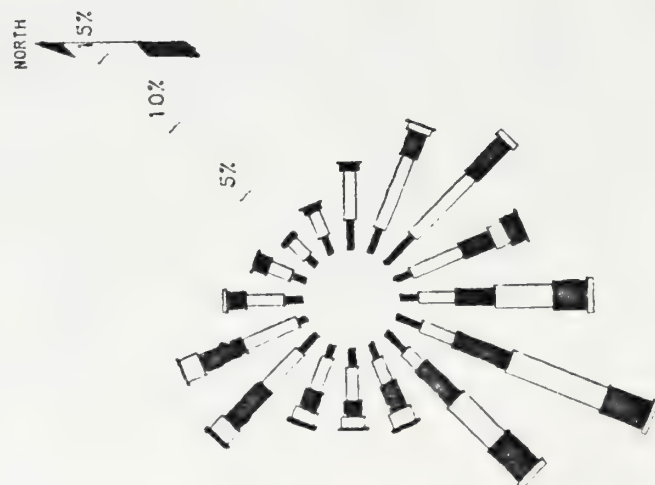


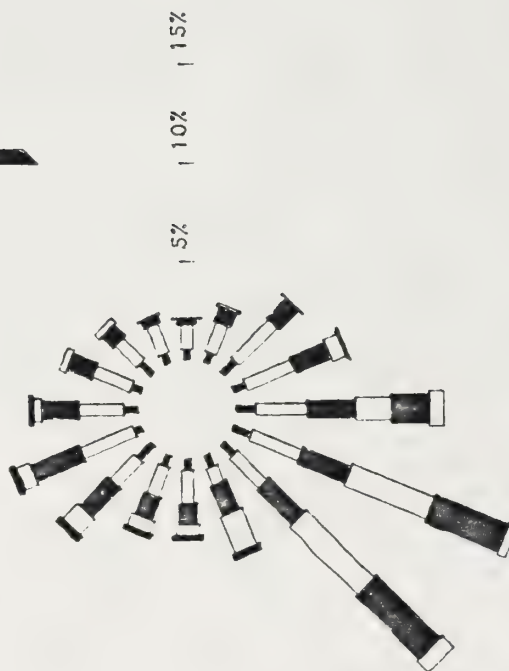
Figure 2.3.3.3-9

AA23 QUARTERLY WIND ROSE • 60M

MAR '81 - MAY '81

TOTAL % OF CALMS DISTRIBUTED (0.0 %)
 TOTAL NO. OF 1-HOUR SAMPLES - 2099

NORTH



JUN '81 - AUG '81

TOTAL % OF CALMS DISTRIBUTED (0.0 %)
 TOTAL NO. OF 1-HOUR SAMPLES - 1964

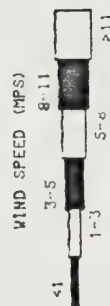
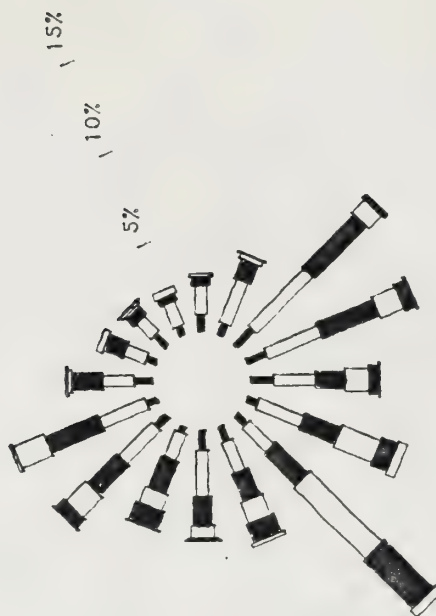


Table 2.3.3.3-11

METEOROLOGICAL SUMMARY: STABILITY CLASS FREQUENCIES (%)

Source: Met Tower¹
(10m to 60m)

Pasquill-Gifford Stability Class	dT/dz Range ¹ for this Stability Class (°C/100m)	1979		1980										Annual Mean
		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	
A	<-1.9	.5	.6	0.0	0.0	0.0	0.0	0.0	0.3	0.2	0.0	1.3	1.7	0.4
B	-1.9 to -1.7	.7	.3	.4	.3	.4	5.4	6.6	9.0	9.8	13.7	11.9	13.7	6.0
C	-1.7 to -1.5	.7	.1	.3	0.0	.1	4.0	10.1	13.0	10.8	11.4	9.2	9.6	5.8
D	-1.5 to -0.5	17.8	22.5	48.3	28.5	47.3	39.6	42.0	28.9	26.8	27.5	25.8	23.2	31.5
E	-0.5 to 1.5	49.5	37.4	34.0	47.3	39.0	31.0	25.1	22.7	24.0	21.1	23.2	22.3	31.4
F	>1.5	30.8	39.1	17.0	23.9	13.2	20.0	16.2	26.1	28.4	26.3	28.6	29.5	24.9
Total Percentage		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Pasquill-Gifford Stability Class	dT/dz Range ¹ for this Stability Class (°C/100m)	1980		1981										Annual Mean
		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	
A	<-1.9	1.4	0.3	0.4	0.3	0	0.3	2.4	3.2	1.0	1.8	1.2	0.7	1.1
B	-1.9 to -1.7	9.6	4.1	5.0	8.3	7.0	11.2	6.3	11.4	7.0	8.3	4.5	3.1	7.2
C	-1.7 to -1.5	14.8	8.3	7.4	9.8	10.5	9.4	5.7	6.0	5.0	4.3	8.6	2.8	7.7
D	-1.5 to -0.5	26.5	29.7	27.5	31.7	37.7	35.6	40.3	33.7	34.0	24.2	26.5	43.3	32.6
E	-0.5 to 1.5	24.5	32.9	39.9	30.1	29.8	25.5	33.5	28.6	30.0	34.8	44.5	35.6	32.5
F	>1.5	23.2	24.7	19.8	19.8	15.0	18.0	11.9	17.2	23.0	26.6	19.7	14.5	19.5
Total Percentage		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

(1) Adjusted for wind speed

Table 2.3.3.3-12

AVERAGE HOURLY STABILITY CLASSES (1978 - 1980)

SOURCE: Temperature differences between 60 meter and 10 meter on the Met Tower
(Adjusted for Wind Speed)

Month	HOUR																								Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Nov. 1978	E	E	E	E	E	E	E	E	E	E	E	E	D	D	D	D	E	E	E	E	E	E	E	E	E
Dec. 1978	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Jan. 1979	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Feb. 1979	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Mar. 1979	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Apr. 1979	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
May 1979	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
June 1979	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
July 1979	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Aug. 1979	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Sept. 1979	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Oct. 1979	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Nov. 1980	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Dec. 1980	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Jan. 1980	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Feb. 1980	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Mar. 1980	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Apr. 1980	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
May 1980	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
June 1980	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
July 1980	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Aug. 1980	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Sept. 1980	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Oct. 1980	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E

AVERAGE HOURLY STABILITY CLASSES (1980 -

SOURCE: Temperature differences between 60 meter and 10 meter on the Met Tower
(Adjusted for Wind Speed)


Month	HOUR																								Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Nov. 1980	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	D
Dec. 1980	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Jan. 1981	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Feb. 1981	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Mar. 1981	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Apr. 1981	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
May 1981	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Jun 1981	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Jul 1981	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Aug 1981	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Sep 1981	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Oct 1981	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E


* Partial data only, less than 100%
but more than 50%

1 Missing data

Key:

 Unstable Class

 Neutral

 Stable Class

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2.3.4 Visibility

The visibility monitoring program has been co-sponsored by the C.B. and Rio Blanco Shale Oil Projects. There are no state or federal requirements for visibility monitoring; however, the program is required under the Federal Oil Shale Lease Environmental Stipulations.

Figure 2.3.4-1 shows the four views used to monitor visibility range. Data collected for the visibility program during this report period will be reported in the 1981 C-b Annual Report, April 1982.

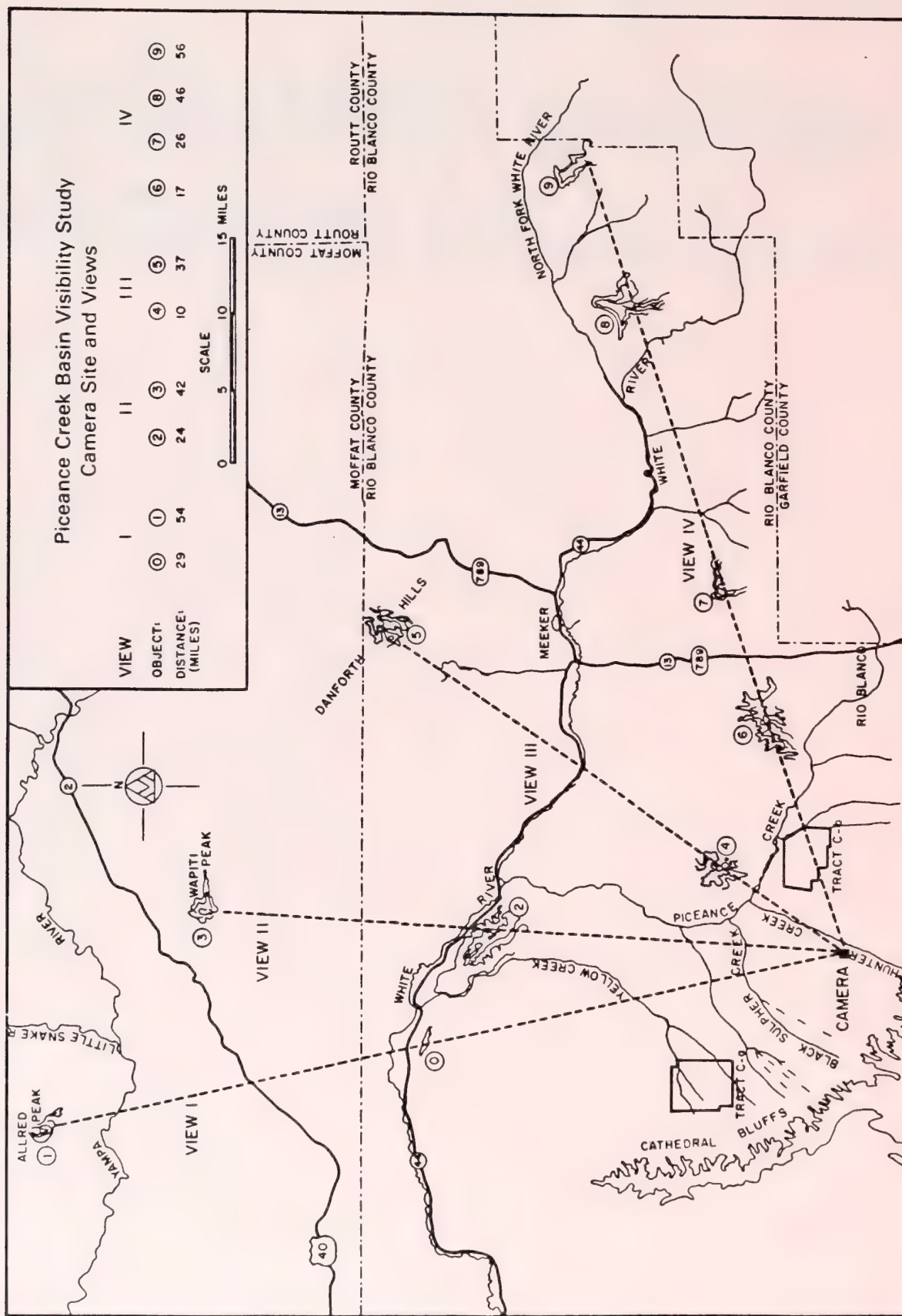


Figure 2.3.4-1

2.3.5 Atmospheric Diffusion Studies

updated. Atmospheric diffusion studies have not been

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2.3.6 Inversion Studies

Temperature inversion heights are measured by means of an AeroVironment Model 300 Acoustic Radar. The instrument was reactivated at Piceance Creek Station AB20 in November, 1977. The output of the instrument is a continuous strip chart record of reflected sound signals associated with thermal turbulence signatures; such signatures vary in character depending on whether the atmosphere is stable or unstable. The chart provided a means for determining the height in meters of temperature inversions and mixing layers above ground level.

The average hourly inversion heights by month for the period December, 1980 through October, 1981 are shown in Table 2.3.7-1.

Table 2.3.7-1

(2)
AVERAGE HOURLY INVERSION HEIGHT BY MONTH
(ACOUSTIC RADAR @ STATION AB20)

Item	Month	Beginning Clock Hour (MST)																								Average
		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
I	December 1980	388	400	401	419	429	426	411	416	378	327	257						184	288	385	419	440	432	426	396	376
I	January 1981	336	343	351	354	356	352	352	341	306	300	205						176	215	302	339	346	348	329	346	309
I	February	367	355	359	358	354	356	361	339	325	278	229						149	272	348	379	383	382	364	330	
I	March	330	325	329	325	328	329	308	293	238	193								162	266	319	323	322	311	291	
I	April	335	344	359	344	361	374	359	289	158									107	206	297	328	312	318	304	
	May	409	460	461	466	466	444	405	344	272	246								217	249	332	380	374	373	370	
	June	393	435	441	449	470	465	406	316	205										195	276	343	371	362	365	
	July	400	428	437	436	436	420	344	234										145	236	308	359	362	356	350	
	August	383	404	429	440	433	429	344	257										216	312	363	393	393	379	357	
	September	317	320	315	316	326	327	297	205										180	221	244	293	315	320	241	
	October (IM)																									

(IM) Instrument Malfunction

2.3.7 Tethersonde Soundings

No additional studies were conducted during this time period.

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2.3.8 Air Quality Assurance

The quality assurance program and procedures have been documented in Air Monitoring Quality Assurance Manual and Standard Operating Procedures, Cathedral Bluffs Shale Oil Co., August 1981. This document was submitted in August to EPA, Region VIII for approval. Copies were also sent to the Oil Shale Office and the Colorado State Department of Health.

These quality assurance procedures define requirements for instrument selection, installation, calibration, maintenance and auditing in accordance with regulations of the Clean Air Act. These procedures are followed by on-site personnel regarding air monitoring equipment. Copies of the quality assurance manual are retained in each air quality trailer for easy reference; these include standard forms for recording calibrations, repairs and data problems.

Air quality audits have been conducted by an independent consultant at Station AB23 since 1976 and are reported on Table 2.3.8-1. In addition, Station AB20 was audited in May 1981. Audit performance goals for the instruments are to achieve values of β within $\pm 10\%$ of unity where

$$C_2 = \beta C_1 + \alpha$$

C_2 = Concentration of gas obtained by audit service

C_1 = Concentration of gas obtained by station calibration

β = Constant = Linear slope of regression line

α = Constant = C_2 intercept of regression line

Thus a β of 1.0 and an α of 0.0 indicate perfect agreement between station and the audit.

In addition, in December 1981 a systems audit was conducted by EPA, Region VIII's independent contractor. Audit recommendations and actions taken by CB are presented in Table 2.3.8-2.

TABLE 2.3.8-1 AIR QUALITY AUDIT RESULTS AT C-b TRACT

STATION	INSTRUMENT	(1) β Value														
		12/2/76	4/20/77	8/23/77	11/30/77	3/20/78	6/23/78	9/22/78	12/15/78	3/28/79	6/20/79	9/25/79	12/13/79	3/27/80	6/17/80	5/4/81
AB23	NO	1.370	0.949	1.383	-	1.022	0.942	0.920	0.825	0.809	1.013	0.911	0.971	0.960	1.055	0.985
	NOx	1.250	0.896	1.202	-	0.975	0.912	0.898	0.865	0.768	1.013	0.984	0.962	0.941	1.010	0.948
	NO ₂									0.845	1.075	-	0.999	1.042	1.094	1.011
	SO ₂	0.989	1.847	0.983	0.992	1.018	1.002	1.088	0.937	0.971	-	1.079	0.918	0.939	1.154	0.919
	H ₂ S	-	1.715	-	-	1.068	1.020	1.150	0.969	0.952	-	1.064	0.952	0.965	1.359	-
AB20	CO	-	0.974	-	-	1.006	0.953	0.964	1.038	1.062	1.081	1.170	0.939	0.964	1.148	0.910
	O ₃	0.917	0.872	0.927	0.932	1.202	0.816	0.831	0.898	0.798	0.924	0.799	0.955	0.866	0.816	1.199
	NO															1.019
	NO _x															0.944
	NO ₂															1.025
Audit Agency	SO ₂															0.901
	CO															1.007
	O ₃															1.010
		NAR														

 $C_2 = \beta C_1 + \alpha$ - = Not Calibrated

 $(//) \beta$ = Linear slope of C_2 vs C_1 line
Where C_2 = Concentration of gas obtained by audit service C_1 = Concentration of gas obtained by station calibration

Table 2.3.8-2

LIST OF ACTIONS TAKEN BY CATHEDRAL BLUFFS
IN RESPONSE TO THE EPA SYSTEMS AUDIT REPORT

<u>Audit Recommendation</u>	<u>Action Taken by CBSOC</u>
Examine filters using a light box prior to weighing.	Light box is now being used to examine all filters
correct primary UV photometer procedures.	This problem was corrected immediately following the systems audit using the procedures given to CBSOC by Rockwell.
TSP - reweigh a certain percentage of filters prior to exposing.	Procedures established to reweigh 4 filters out of every lot size of <50.
Clarify TSP section in QA manual for reporting in standard conditions.	TSP section revision sheets will be sent to all personnel and agencies who have a copy of the CBSOC QA manual.
Institute quarterly quality assurance audits.	Procedure established. Quarterly performance audit is being instituted on all air monitoring equipment at CB. The first such audit will be conducted on December 28, 19, and 30. Results will be sent to all appropriate agencies in report form.
Perform biweekly precision checks.	New calibration equipment has been purchased which will enable CBSOC to perform biweekly precision checks. These checks will be initiated as soon as the equipment is received.
Perform semi-annual MET QA.	New Met equipment has been purchased and will be installed as soon as possible. Old equipment will be sent back to the factory for overhaul and calibration. Equipment will be rotated on a semi-annual basis.
Institute the use of control charts.	Control charts for TSP have already been implemented. Control charts for monitoring instrumentation will be started immediately after the upcoming quarterly audit.

Table 2.3.8-2 (continued)

<u>Audit Recommendation</u>	<u>Action Taken by CBSOC</u>
Use certified standards for spans.	All new orders for span gases have been specified as NBS traceable. Records of certificates are kept on-site and by the Quality Assurance department.
Define data validation criteria.	This section is currently under revision. Sheets will be forwarded to all agencies and personnel who have a copy of the CBSOC QA manual.
Obtain EPA approval of QA plan.	Copies of the CBSOC QA manual were sent to EPA Region VIII for review in August 1981.
Report precision probability limits and percentage differences.	This section is currently under preparation by quality assurance and statistics personnel.

AIR MONITORING REPORT
FOR
PROTOTYPE OIL SHALE LEASE TRACT C-B

MAY 1981

SUBMITTED
SEPTEMBER 22, 1981



PREPARED BY :
OCCIDENTAL OIL SHALE, INC. OPERATOR
P.O. BOX 2687
GRAND JUNCTION, COLORADO 81501

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NITRIC OXIDE
(UG/M3)

CR-TRACT
TRAILER AB20
MAY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEA
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(CA)	(CA)	(CA)	(CA)	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	1	(CA)	(CA)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)
5	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	2	0	0	0	0	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)
22	5	2	1	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	4	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PK	5	2	1	1	0	1	1	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CR-TRACT
TRAILER A823
MAY 1981
OCCIDENTAL OIL SHALE INC.

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK	
HOUR (LOCAL STANDARD TIME)																											
1	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()	
2	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()	
3	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()	
4	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()	
5	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()	
6	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()	
7	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()	
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	0	0	
16	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()	
17	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()	
18	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()	
19	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()	
20	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()	
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()	
23	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()	
24	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()	
25	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()	
26	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()	
27	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()	
28	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()	
29	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()	
30	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()	
31	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()	
AV	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	
K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

OXIDES OF NITROGEN
(UG/M3)

CR-TRACT
TRAILER AB20
MAY 1981
OCCIDENTAL OIL SHALE INC.

DAY	HOUR (LOCAL STANDARD TIME)																								AVE PEAK
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	0
22	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	0
23	(CA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	11	4	4	4	4	4	4	6	6	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	15	6	4	4	4	6	8	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	8	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AV	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PK	15	6	4	4	4	6	8	6	6	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	15

CR-TRACT
TRAILER AR23
MAY 1981
OCCIDENTAL OIL SHALE INC.

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK	
HOUR (LOCAL STANDARD TIME)																											
1	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()	
2	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()	
3	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()	
4	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	0	0	0	(IM)	(IM)	(IM)	(IM)	(IM)	()	()	
5	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()	
6	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()	
7	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	0	0	0	0	0	0	0	0	0	0	0	0	()	()	
8	2	2	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	0	2	2	2	2	2	2	0	0	0	2	2	2	2	2	2	2	2	2	2	0	2	2	2	1	2	
11	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
12	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	0	2	
13	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
15	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	0	0	
16	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()	
17	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()	
18	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()	
19	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()	
20	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()	
21	0	0	0	0	0	0	0	0	0	(PF)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()	
23	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()	
24	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()	
25	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()	
26	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()	
27	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()	
28	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()	
29	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()	
30	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()	
31	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()	
AV	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	
PK	2	2	2	2	2	2	2	0	0	0	2	2	2	2	2	2	2	2	2	2	0	0	2	2	2	()	

NITROGEN DIOXIDE
(UG/M3)

CR-TRACT
TRAILER AB20
MAY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(CA)	(CA)	(CA)	(CA)	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(CA)	(CA)	0	0	0	0	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)
22	(CA)	(CA)	(CA)	(CA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	(CA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	9	4	4	4	4	4	4	6	6	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	9	6	4	4	4	4	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	8	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AV	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PK	9	6	4	4	4	4	6	6	6	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

NITROGEN DIOXIDE
(UG/M3)

CB-TRACT
TRAILER AB23
MAY 1981
OCCIDENTAL OIL SHALE INC.

DAY	HOUR (LOCAL STANDARD TIME)																								AVE PEAK
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
2	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
3	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
4	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
5	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
6	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()
7	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()
8	2	2	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	()
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	()
10	0	2	2	2	2	2	2	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	()
11	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	()
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	()
13	2	2	2	2	2	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	()
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	()
15	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
16	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
17	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
18	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
19	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()
20	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	()
22	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()
23	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()
24	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()
25	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()
26	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()
27	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()
28	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()
29	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()
30	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()
31	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()
AV	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
PK	2	2	2	2	2	2	2	0	0	0	2	2	2	2	2	2	2	2	2	2	0	2	2	2	2

OZONE
(UG/M3)

CR-TRACT
TRAILER AB20
MAY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	20	20	20	20	18	20	22	35	39	41	55	65	71	69	65	69	65	59	49	39	37	39	37	35	42	71
2	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	73	74	(CA)	(CA)	(CA)	(CA)	114	112	110	92	104	98	94	92	()	114
3	100	98	92	76	76	69	76	80	92	84	92	94	(CA)	102	116	118	100	106	100	100	88	88	90	78	92	118
4	80	73	67	63	59	65	74	84	106	112	116	114	114	(CA)	116	116	112	110	92	73	59	53	51	49	85	116
5	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
6	122	123	106	118	135	131	122	122	120	131	137	137	133	141	141	145	143	131	120	125	129	122	110	104	127	145
7	94	92	86	76	76	82	86	98	118	118	118	120	122	123	125	125	127	127	125	102	80	69	69	69	101	127
8	73	73	63	67	67	67	73	80	92	106	108	112	116	122	114	114	114	114	106	108	110	102	98	94	95	122
9	92	82	78	78	74	74	84	94	102	108	112	112	112	112	114	114	114	114	106	88	82	69	65	63	93	114
10	61	63	65	65	67	69	74	84	106	110	106	108	108	108	106	106	110	114	106	88	92	88	84	84	94	122
11	88	82	88	100	96	112	127	125	114	112	120	116	112	112	114	114	108	114	114	102	86	78	73	67	103	127
12	74	78	82	80	74	61	63	71	84	96	104	112	112	110	108	108	114	114	116	102	84	69	59	63	89	116
13	59	57	51	49	49	51	59	78	94	94	98	102	102	106	106	106	104	104	94	82	74	67	65	63	80	106
14	65	67	69	71	71	73	74	94	114	114	114	118	116	116	114	116	120	122	118	106	96	94	90	84	97	122
15	80	84	88	86	90	76	84	106	106	110	106	108	108	108	106	106	110	108	98	110	110	105	106	108	100	110
16	106	88	80	76	73	73	84	100	104	114	114	112	112	114	112	112	104	104	102	80	73	65	53	53	92	114
17	57	63	55	53	63	90	88	82	82	88	82	84	82	84	84	90	90	92	92	92	86	88	82	80	81	92
18	74	71	69	63	59	55	67	88	92	96	104	110	110	112	110	112	112	102	80	74	67	61	59	61	84	112
19	59	61	59	59	63	61	65	74	92	114	114	110	112	114	114	114	116	118	118	102	102	100	104	112	94	118
20	110	114	112	110	108	106	92	108	110	114	114	110	108	102	102	94	90	88	98	104	104	90	100	94	103	114
21	90	94	76	86	78	71	88	102	96	96	98	104	104	96	96	94	92	90	86	86	76	61	45	41	85	104
22	45	47	53	49	43	41	37	55	73	74	76	74	57	59	61	61	61	53	59	41	37	27	22	18	51	76
23	16	14	10	8	8	8	10	20	33	55	71	76	80	80	78	80	80	78	73	59	43	31	24	24	44	80
24	22	22	16	20	22	24	29	41	45	65	78	80	78	78	84	84	80	69	59	55	41	31	35	31	50	84
25	27	22	24	18	16	18	31	45	41	39	51	57	59	59	55	51	51	51	49	33	27	20	20	24	37	59
26	29	20	10	4	2	8	6	24	41	61	67	78	80	98	108	104	102	96	96	88	88	84	80	71	60	108
27	65	59	55	49	43	41	43	69	82	84	80	82	63	57	59	63	65	57	51	(IM)	(IM)	(IM)	(IM)	(IM)	61	84
28	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	49	51	63	84	80	84	78	76	74	63	59	59	67	49	67	84
29	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	94	98	94	88	84	86	88	71	51	39	35	33	72	98
30	31	31	29	27	29	27	33	51	73	100	100	100	98	96	98	96	92	92	86	73	51	49	43	47	65	100
31	47	51	55	53	41	47	49	80	82	86	92	96	94	88	88	82	78	80	78	65	55	49	47	43	68	96

AV	66	65	61	60	59	60	65	77	86	93	95	98	97	99	99	99	99	96	91	83	75	69	66	63	80	
PK	122	123	112	118	135	131	127	125	120	131	137	137	133	141	141	145	143	131	125	125	129	122	110	112		145

070NF.
(UG/M3)

CR-TRACT
TRAILER AB23
MAY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	92	100	100	100	80	84	86	106	110	106	131	143	141	139	137	137	137	135	129	114	120	120	120	118	116	143
2	114	120	116	120	118	118	120	122	122	123	127	129	125	127	125	131	127	127	123	100	110	112	110	106	120	131
3	119	112	114	108	90	100	98	102	114	116	123	122	114	129	129	129	112	112	104	100	94	94	86	86	109	129
4	98	110	114	114	104	106	90	102	131	139	139	137	143	141	139	141	141	139	129	122	116	114	120	110	122	143
5	104	112	114	116	127	129	110	116	137	145	147	155	137	129	131	(CA)	(CA)	129	127	131	125	123	123	114	127	155
6	120	120	106	118	135	125	114	116	122	133	137	139	139	145	145	149	151	120	122	120	122	122	112	108	127	151
7	120	116	106	108	106	94	96	114	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	120
8	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	78	88	84	82	88	86	78	73	74	74	69	65	78	88
9	57	63	63	57	53	57	61	67	76	80	82	84	84	84	86	86	88	88	84	74	59	65	61	63	72	88
10	65	69	73	69	67	69	63	76	86	90	94	92	92	90	90	90	88	88	86	80	80	80	78	76	81	94
11	78	78	80	82	80	84	96	84	80	84	92	90	86	86	88	86	84	88	86	82	80	73	76	74	84	96
12	69	63	67	63	67	47	47	59	61	67	80	88	86	88	86	82	90	90	96	88	82	74	73	67	74	96
13	69	59	59	49	49	47	49	65	69	73	76	78	80	84	84	82	80	78	73	69	69	65	67	73	69	84
14	74	76	74	76	78	76	80	92	96	94	92	94	94	94	94	96	100	104	98	94	82	82	80	76	88	104
15	74	82	80	78	78	78	82	84	84	86	82	84	86	80	82	82	86	82	84	90	88	84	82	88	83	90
16	73	71	67	61	59	63	76	80	84	90	90	90	88	92	90	90	78	76	78	63	61	63	67	69	76	92
17	65	61	55	55	63	65	63	61	65	67	61	59	59	59	61	65	67	71	67	71	65	69	69	65	63	71
18	57	57	53	51	45	53	63	59	76	74	82	80	86	84	86	92	92	88	86	74	73	78	76	80	73	92
19	78	80	74	71	69	67	65	67	67	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	80
20	125	122	118	112	114	112	112	114	108	116	116	104	102	108	110	100	98	94	110	114	112	104	114	112	110	125
21	110	110	102	106	114	114	112	108	116	(PF)	114	114	114	110	112	108	106	102	96	(PF)	86	78	76	71	103	116
22	80	78	78	82	84	80	84	90	86	84	90	90	86	92	88	94	82	82	82	76	80	71	67	73	83	94
23	63	65	55	55	59	51	51	61	74	88	102	108	110	110	112	110	110	110	106	104	100	94	94	87	112	112
24	90	88	82	80	84	80	74	86	108	108	112	112	112	108	114	118	108	98	98	96	96	88	88	92	97	118
25	71	67	76	78	88	74	71	76	84	88	84	88	90	88	86	82	84	82	82	76	73	76	82	74	80	90
26	57	57	59	51	53	57	53	67	82	98	108	(PF)	110	112	114	112	108	104	100	96	96	92	90	88	85	114
27	82	80	80	73	74	76	76	88	94	90	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	94
28	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	82	80	88	88	88	90	82	82	78	78	78	90	86	78	84	90
29	74	80	67	69	69	61	61	57	90	86	86	96	102	104	104	102	100	98	98	90	86	86	78	84	85	104
30	76	71	75	82	73	69	59	69	82	102	106	106	106	106	106	104	102	94	92	94	84	84	88	84	88	106
31	76	84	90	90	88	74	86	94	94	96	106	108	102	98	96	92	92	92	92	86	96	92	96	86	92	108
AV	84	84	83	82	82	80	79	85	94	97	102	103	101	102	102	101	99	98	96	91	89	87	87	85	91	155
PK	125	122	118	120	135	129	120	122	137	145	147	155	143	145	145	149	151	139	129	131	125	123	123	118		

CARBON MONOXIDE
(UG/M3)

CR-TRACT
TRAILER AB20
MAY 1981
OCCIDENTAL OIL SHALE INC.

DAY	HOUR (LOCAL STANDARD TIME)																								AVE	PEAK
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0	(PF)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	(PF)	0	0	0	0	0	0	0	0	(PF)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	0	(CA)	0	0	0	0	0	0	0	0	0	0	0	
5	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
AV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

CARBON MONOXIDE
(UG/M3)

CR-TRACT
TRAILER AR23
MAY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	200	200	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	200
16	200	200	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	200
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PK	300	200	200	200	100	200	100	100	400	100	100	600	100	300	100	300	300	300	300	300	300	300	300	300	300	600

SULFUR DIOXIDE
(UG/M3)

CB-TRACT
TRAILER AB20
MAY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	CA	CA	CA	CA	CA	CA	CA	CA	CA	CA	CA	CA	CA	CA	CA	CA	CA	CA	CA	CA	CA	CA	CA	CA	CA	CA
4	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
5	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)
6	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
7	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
8	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
9	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
10	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
11	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
12	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
13	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
14	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
15	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
16	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
17	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
18	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
19	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
20	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
21	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
22	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
23	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
24	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
25	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
26	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
27	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
28	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
29	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
30	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
31	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
AV	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
PK	8	8	8	8	8	8	8	8	8	8	8	10	8	8	8	8	8	8	8	8	8	8	8	8	8	10

SULFUR DIOXIDE
(UG/M3)

CB-TRACT
TRAILER AR23
MAY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	0	0	0	0	0	0	0	0	0	()	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	5	1	5
3	10	8	8	8	8	10	10	10	5	0	0	0	0	0	0	3	5	8	8	8	8	10	10	10	6	10
4	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	0	0	0	0	0	0	0	()	0	
5	0	0	0	0	0	0	0	0	(CA)	(CA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	0
7	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	0
8	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
9	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
10	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
11	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
12	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
13	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
14	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
15	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	(MT)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	0
20	0	0	0	0	0	0	0	0	0	(MT)	(MT)	(MT)	(MT)	(MT)	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	(PF)	0	0	0	0	0	0	0	0	0	(PF)	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	0
28	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
29	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AV	1	0	0	0	0	1	1	1	0	()	()	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0
PK	10	8	8	8	8	10	10	10	5	0	0	0	0	0	0	3	5	8	8	8	8	10	10	10	10	10

HYDROGEN SULFIDE
(UG/M3)

CR-TRACT
TRAILER AB23
MAY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
5	0	0	0	0	0	0	0	0	(CA)	(CA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	0	0	0	0	0	0	0	0	0	0	0
7	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	0	0	0	0	0	0	0	0	0	0	0
15	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	(MT)	(MT)	(MT)	(MT)	(MT)	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	(PF)	0	0	0	0	0	1
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	(PF)	(PF)	(PF)	(PF)	(PF)	0	0	0	0	0	0	0	0	0	0	0
28	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	0	0	0	0	0	0	0	0	0	0	0
29	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PK	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1

PARTICULATE DATA
UG/M3

CR-TRACT
MAY 1981
OCCIDENTAL OIL SHALE, INC

DAY	AB20	STATION AB23	AD56
3	6.2	9.5	8.5
6	5.9	6.6	3.5
9	22.8	4.7	2.3
12	8.0	24.1	7.5
15	11.1	29.3	16.4
18	7.7	28.9	6.9
21	10.8	7.9	12.0
24	13.9	9.3	8.8
27	9300.0	9300.0	11.4
30	14.8	20.6	13.3
PK	22.8	29.3	16.4
AV	11.2	15.7	9.1
GM	10.3	12.8	7.9

WIND SPEED @10M
METERS/SEC

CR-TRACT
TRAILER AR20
MAY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	2	2	3	1	1	1	2	1	2	2	1	2	4	2	3	2	2	(CM)	(CM)	(CM)	(CM)	(CM)	1	1	2	2
2	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(CM)	(CM)	(CM)	()	4
3	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	()	5
4	0	(CM)	(CM)	(CM)	(CM)	(CM)	0	0	0	0	0	0	1	1	2	2	0	0	1	1	1	1	1	1	()	4
5	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	2
6	5	3	2	2	1	2	3	3	3	2	5	4	4	4	4	4	4	1	3	0	3	4	4	0	3	5
7	1	1	1	2	2	2	2	0	3	5	5	4	4	4	4	4	4	2	1	1	1	0	1	1	2	5
8	1	1	1	1	1	2	3	1	2	4	4	4	3	4	2	5	2	2	1	1	2	1	1	1	2	5
9	1	1	1	0	1	0	1	2	2	1	1	1	1	3	2	1	2	1	1	1	1	1	1	1	1	3
10	2	2	3	3	3	4	4	0	3	0	2	3	3	2	3	3	1	1	2	3	1	2	2	1	2	4
11	2	2	2	3	2	5	5	4	0	3	0	4	4	4	4	4	3	4	3	(CM)	(CM)	0	2	1	2	5
12	1	2	2	2	1	(CM)	(CM)	1	1	3	4	8	5	4	4	4	5	3	2	1	1	1	1	0	2	8
13	(CM)	(CM)	(CM)	0	1	1	2	1	1	1	1	1	2	1	1	1	0	1	2	1	0	0	0	0	3	5
14	3	4	4	3	1	3	2	2	1	2	4	3	4	4	4	4	4	4	2	2	2	2	1	1	2	5
15	1	3	2	1	3	3	1	4	4	4	5	5	5	4	2	2	3	2	2	3	0	2	2	2	3	5
16	3	1	0	1	1	1	1	1	1	2	2	2	3	3	2	2	2	2	1	(CM)	(CM)	2	(CM)	(CM)	2	3
17	(CM)	(CM)	(CM)	(CM)	1	1	(CM)	1	(CM)	1	1	3	2	3	3	2	4	1	2	2	3	3	2	2	2	4
18	0	0	0	1	(CM)	(CM)	0	0	0	1	1	1	1	0	1	0	1	1	2	1	2	1	1	2	2	5
19	3	3	2	3	4	4	2	3	3	4	4	5	2	4	4	4	4	4	2	2	4	3	4	4	2	5
20	2	6	5	4	4	2	2	5	5	8	4	2	2	4	7	1	2	2	2	4	3	2	3	1	2	5
21	4	2	2	2	3	3	2	3	5	4	4	4	5	4	4	4	4	4	4	2	0	0	0	0	3	5
22	1	1	1	0	1	1	1	1	1	3	4	2	2	2	3	4	1	1	2	1	1	1	1	1	2	8
23	1	0	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	1	2	1	1	1	1	3	2	2	2	2	1	1	1	1	1	2	3
24	2	2	2	2	3	3	3	3	2	2	3	2	4	1	1	1	2	2	2	1	1	2	2	2	2	4
25	1	(CM)	1	0	0	2	3	3	1	0	4	2	1	2	1	3	4	4	2	2	2	2	2	2	2	4
26	1	1	1	1	0	2	1	2	2	1	2	3	3	4	4	3	3	3	3	4	1	2	0	0	4	4
27	0	1	1	2	2	0	1	1	1	1	2	3	2	2	2	3	3	3	4	2	0	1	1	1	2	4
28	0	2	0	(CM)	(CM)	(CM)	(CM)	0	0	2	2	1	2	2	3	4	4	4	1	1	1	1	1	1	1	4
29	2	1	0	1	(CM)	0	0	0	1	2	2	2	3	2	4	2	3	3	1	1	1	1	2	2	2	4
30	1	1	2	2	2	1	1	1	0	1	2	2	3	2	0	2	3	3	0	1	1	1	2	2	2	4
31	2	3	2	(CM)	(CM)	1	1	0	3	4	3	2	1	3	4	4	4	3	3	2	2	2	2	2	2	4
AV	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	2	2	2	1	2	2	1	2	8
PK	5	6	5	4	4	5	5	5	5	8	5	8	5	5	7	5	5	4	4	4	4	4	4	4	4	8

WIND SPEED @ 10M
METERS/SEC

CR-TRACT
TRAILER AA23
MAY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	1	0	1	1	0	0	0	1	1	2	(CM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	1	2
2	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	1	4
3	3	2	4	1	2	1	1	2	2	0	1	3	3	6	4	8	7	4	7	4	0	2	2	1	4	8
4	1	1	0	(CM)	1	(CM)	0	0	1	1	1	1	1	2	2	4	1	1	1	1	1	1	1	1	1	2
5	0	1	1	1	1	2	0	2	2	1	4	5	1	6	5	5	3	4	2	9	7	2	0	0	1	1
6	4	1	1	4	1	2	2	(CM)	3	6	8	6	6	7	7	6	5	4	2	4	5	5	4	1	4	8
7	2	2	1	1	1	1	1	4	3	4	4	3	2	4	4	4	4	4	3	2	2	2	1	1	3	9
8	1	1	0	1	1	0	1	1	3	4	4	5	5	1	2	5	3	0	0	2	3	1	1	1	4	8
9	3	3	2	3	2	2	2	1	3	2	2	2	1	2	1	4	3	1	1	1	0	2	1	1	2	6
10	1	1	5	5	4	6	5	3	0	1	3	4	4	7	4	2	2	6	4	2	1	3	3	3	3	3
11	8	6	5	5	4	4	5	3	1	1	4	7	5	4	4	2	2	4	4	2	1	3	3	3	4	8
12	1	1	0	1	1	0	0	1	1	2	4	7	4	7	4	4	5	4	3	1	2	1	1	1	1	2
13	1	1	1	1	1	1	0	0	0	1	1	1	2	1	2	2	2	2	4	0	2	1	1	1	1	2
14	2	2	2	2	2	2	1	1	3	2	3	4	4	7	4	4	4	4	3	4	5	5	6	6	3	3
15	2	3	5	5	4	4	6	7	6	7	7	7	7	4	3	5	4	2	4	6	4	4	4	4	5	7
16	3	1	1	1	1	2	2	3	3	3	3	3	4	3	4	4	4	4	0	1	2	2	2	2	4	4
17	1	2	2	2	2	1	0	1	2	3	1	1	2	2	3	4	3	2	2	2	3	3	2	2	2	2
18	2	2	2	2	1	1	0	1	1	1	1	1	1	1	1	1	2	1	2	2	2	(CM)	1	0	1	2
19	0	1	1	2	2	2	2	2	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	1	2
20	2	7	6	4	4	2	3	8	9	9	8	6	5	6	7	5	4	5	4	6	5	4	5	2	5	9
21	4	4	3	4	4	5	3	3	8	(PF)	8	9	10	8	8	9	8	7	4	(PF)	2	3	2	1	6	10
22	3	3	2	4	3	3	3	3	4	4	4	4	2	2	4	3	1	1	2	2	1	0	1	1	2	4
23	0	1	1	1	1	0	1	1	2	1	1	2	2	3	3	3	3	3	3	1	1	1	1	1	1	3
24	0	(CM)	(CM)	0	0	1	1	1	0	2	3	3	2	1	1	1	1	1	3	1	1	1	1	1	1	3
25	0	0	1	0	0	1	1	0	2	4	4	1	2	4	2	2	2	1	2	2	1	2	2	1	4	4
26	0	2	1	1	1	2	0	1	1	1	1	5	5	6	6	5	4	4	4	5	4	4	3	3	6	6
27	3	2	2	1	2	1	1	4	4	2	(PF)	(PF)	(PF)	(PF)	5	4	4	4	6	3	1	1	2	2	3	3
28	1	2	1	1	1	2	0	1	1	1	1	1	1	3	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	1	2
29	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	2	3	3	4	4	4	1	1	2	1	0	0	1	2	4
30	0	1	1	1	1	1	0	0	1	0	2	1	0	1	1	1	2	2	4	2	2	1	1	1	1	4
31	1	2	2	1	2	1	2	3	3	4	2	2	2	2	4	4	4	4	2	2	2	2	1	2	2	4
AV	2	2	2	2	2	2	2	2	3	3	3	3	3	4	4	4	4	3	3	3	2	2	2	2	3	10
PK	8	7	6	5	4	6	6	8	9	9	8	9	10	8	8	9	9	8	7	9	7	5	6	6	6	10

WIND SPEED @ 30M
METERS/SEC

CR-TRACT
TRAILER AA23
MAY 1981
OCCIDENTAL OIL SHALE INC.

HO:R (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK	
1	0	0	0	0	1	(CM)	0	1	1	2	(CM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	( )	)	2
2	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	5	10
3	5	4	6	1	3	1	1	2	3	0	2	4	4	8	5	2	0	1	1	2	0	3	2	1	3	8	3
4	2	3	0	(CM)	0	0	0	0	1	1	1	2	1	3	2	3	1	2	2	1	3	1	2	0	2	4	13
5	0	0	1	1	(CM)	3	4	1	3	2	5	7	2	8	9	4	5	8	10	13	10	3	5	2	5	10	
6	5	2	3	5	2	4	3	3	4	7	10	8	8	9	5	8	8	5	3	6	7	7	2	2	4	7	
7	3	3	2	2	0	2	2	0	4	6	5	4	3	5	5	7	6	6	4	4	4	2	1	1	3	8	
8	1	0	1	1	1	0	0	6	4	8	5	7	7	1	3	6	4	1	0	0	(CM)	4	4	3	3	7	
9	4	4	4	4	4	3	2	2	3	2	2	2	2	2	1	2	2	1	2	1	1	4	0	0	2	4	
10	0	1	2	1	1	2	2	1	4	3	4	3	3	3	(CM)	2	5	4	4	5	8	8	8	9	4	9	
11	11	8	7	7	4	9	8	4	(CM)	2	4	5	5	10	5	2	3	8	5	3	1	4	4	3	5	11	
12	3	1	1	1	2	1	1	1	1	3	6	9	7	4	5	2	6	5	4	4	2	1	0	2	3	9	
13	1	1	3	1	1	2	3	2	4	6	6	6	8	8	8	9	10	8	6	3	1	3	1	1	5	10	
14	3	3	3	1	1	2	3	9	4	9	10	9	8	4	4	7	9	3	5	8	5	7	7	5	7	10	
15	3	5	7	8	6	7	8	3	8	4	4	4	4	4	4	4	5	3	1	2	3	3	0	2	3	6	
16	4	1	2	1	2	3	3	3	4	4	4	4	6	3	4	4	4	5	1	2	4	4	3	3	4	4	
17	2	2	2	0	3	1	1	2	1	4	3	4	3	3	4	2	4	2	3	4	4	0	3	3	3	6	
18	3	3	3	3	1	1	0	2	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	2	4	
19	1	3	2	4	4	3	3	3	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	1	4	
20	4	9	8	6	5	3	5	11	13	13	10	8	7	8	9	7	7	7	6	8	8	6	8	4	7	13	
21	5	6	4	6	5	8	5	11	12	(PF)	12	13	13	12	12	12	10	10	5	(PF)	4	5	3	1	8	13	
22	4	5	4	6	5	4	5	4	5	5	5	5	3	3	5	4	1	2	3	3	2	1	1	2	4	6	
23	1	1	1	1	1	1	1	1	2	2	2	2	3	3	4	4	4	4	4	4	2	2	0	0	2	4	
24	0	0	(CM)	0	0	1	2	2	1	2	4	4	2	2	1	1	1	1	1	5	3	1	1	2	2	5	
25	0	1	2	0	1	1	1	1	3	4	5	1	3	6	2	3	3	2	3	4	4	2	3	1	2	6	
26	0	1	2	2	1	2	1	1	2	2	6	6	7	8	8	7	6	5	6	7	7	6	4	4	4	8	
27	4	3	3	2	3	3	2	5	6	3	(PF)	(PF)	(PF)	(PF)	6	6	6	5	8	4	1	2	2	3	4	8	
28	2	4	2	1	1	2	1	1	1	2	1	1	2	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	2	4	
29	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	2	4	4	4	5	1	1	2	3	2	1	1	1	2	5	
30	0	1	1	0	1	(CM)	0	1	1	1	3	1	0	2	1	2	3	3	5	3	3	2	1	1	2	5	
31	2	2	3	1	3	1	4	4	5	6	3	3	3	2	5	4	5	5	4	4	3	4	2	1	3	6	
AV	3	3	3	2	2	3	2	3	4	4	5	5	4	5	5	5	5	4	4	4	4	4	3	3	4	13	
PK	11	9	8	8	6	9	8	11	13	13	12	13	13	12	12	12	10	10	10	13	10	8	8	2	9	13	

WIND SPEED @ 60M
METERS/SEC

CR-TRACT
TRAILER AA23
MAY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	1	1	0	0	1	0	0	1	2	2	0	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	2	
2	6	4	7	2	4	2	1	3	3	1	2	4	4	9	11	10	7	11	7	0	3	4	4	3	6	11
3	1	3	1	0	0	(CM)	1	0	1	2	1	2	2	3	5	3	3	2	1	3	2	1	1	3	3	9
4	1	1	2	1	1	4	3	3	3	2	5	8	2	8	8	4	6	8	3	2	4	2	3	0	2	14
5	6	2	4	6	3	4	4	3	5	8	11	9	9	10	9	9	8	5	11	14	11	3	6	3	5	11
6	7	4	4	3	0	2	3	0	4	6	6	4	3	5	6	8	7	7	5	3	4	7	3	3	6	14
7	0	1	1	0	1	1	1	7	4	8	6	8	7	7	2	8	4	1	1	5	4	3	2	0	4	8
8	4	4	5	5	4	4	3	2	3	4	3	3	2	3	2	6	4	1	2	1	1	4	3	3	3	5
9	4	5	5	2	1	2	1	2	4	4	4	2	3	3	0	2	2	5	4	7	9	10	11	4	4	11
10	0	1	1	2	1	1	1	4	0	3	4	5	5	11	6	2	3	9	6	3	2	4	4	0	3	11
11	13	10	8	8	6	10	4	4	0	3	4	10	8	5	6	2	3	5	4	2	3	1	1	11	4	13
12	4	2	2	2	1	1	1	(CM)	1	2	7	10	8	5	6	8	7	5	4	3	2	4	4	6	6	13
13	1	1	2	2	1	2	4	3	2	7	2	2	3	8	9	9	11	9	3	7	7	8	8	2	2	10
14	2	2	2	1	1	4	4	3	4	10	10	6	9	5	4	8	9	3	7	8	7	6	5	6	8	11
15	4	6	9	10	8	8	9	10	8	4	4	10	9	5	5	5	5	6	1	2	3	4	1	2	6	10
16	6	2	2	2	2	4	3	4	4	4	4	4	7	4	4	5	5	3	4	5	4	5	4	4	8	10
17	3	3	3	1	4	1	2	2	3	4	4	4	3	4	4	4	4	3	4	4	4	4	4	4	4	7
18	3	3	3	4	2	1	1	2	1	1	1	2	2	2	2	2	3	2	4	4	2	0	1	1	2	4
19	2	4	3	4	3	3	4	4	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	1	4
20	4	11	10	6	6	4	6	12	14	14	11	14	8	9	10	8	7	8	8	9	9	7	9	4	8	14
21	6	8	5	8	6	9	6	12	13	13	12	14	14	13	13	13	11	11	6	9	4	7	4	2	9	14
22	5	6	6	7	6	6	6	5	5	6	5	6	4	4	6	4	2	2	3	3	2	1	2	2	4	14
23	2	2	2	2	2	2	2	2	2	2	2	3	3	4	4	4	4	4	5	3	2	2	1	0	3	5
24	1	0	0	1	1	2	2	2	1	2	4	4	3	3	1	1	1	1	6	4	2	2	3	3	2	6
25	1	0	2	1	0	1	1	2	3	5	6	1	3	7	2	3	4	2	3	4	3	4	4	1	3	7
26	2	1	2	1	1	1	1	2	2	2	7	7	8	9	8	8	7	6	6	8	8	7	6	5	9	9
27	5	3	4	3	4	4	3	6	6	4	(PF)	(PF)	(PF)	(PF)	7	6	6	5	8	4	2	1	2	4	8	8
28	2	4	3	1	1	3	1	1	2	2	1	1	2	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	4	4
29	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	3	4	4	5	6	2	2	2	3	2	2	2	2	2	4
30	1	0	0	1	2	1	1	1	1	1	3	1	2	2	1	2	2	3	6	3	4	4	1	4	3	6
31	1	3	4	2	4	1	4	5	6	7	3	3	3	3	5	5	5	6	5	4	5	2	0	3	4	7
AV	3	3	3	3	3	3	3	4	4	4	5	5	5	6	5	5	5	5	5	5	4	4	3	3	4	4
PK	13	11	10	10	8	10	9	12	14	14	12	14	14	13	13	13	11	11	11	14	11	10	11	11	11	14

WIND SPEED @10M

C-B TRACT
MRI AD42

May, 1981

DATA NOT AVAILABLE AT REPORT TIME

WIND SPEED @10M

C-B TRACT
MRI AD56

May, 1981

DATA NOT AVAILABLE AT REPORT TIME

WIND DIRECTION @10M
DEGREES

CB-TRACT
TRAILER AB20
MAY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	PREV
1	103	108	125	100	90	80	107	120	285	275	300	315	290	315	240	205	295	(CM)	(CM)	(CM)	(CM)	105	100	100	106
2	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	172	189	188	187	183	199	100	135	295	(CM)	157	(CM)	(CM)	(CM)	()
3	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	141	324	309	301	284	283	110	130	312	323	121	(CM)	(CM)	121	307
4	130	(CM)	(CM)	(CM)	(CM)	(CM)	138	135	139	127	81	338	319	329	282	266	266	338	28	83	132	124	129	131	97
5	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
6	92	84	112	270	75	97	112	97	79	187	192	175	189	224	190	197	207	319	323	316	313	301	309	15	166
7	62	92	98	128	122	115	115	98	289	299	294	299	300	276	263	281	260	242	237	37	(CM)	109	116	121	158
8	129	135	117	123	130	132	135	83	293	310	339	319	301	236	255	284	216	118	109	352	304	236	62	65	134
9	299	313	349	315	318	315	303	298	280	336	75	74	307	268	269	291	277	305	17	43	90	115	130	117	325
10	118	135	140	140	139	138	136	134	96	289	292	286	277	278	189	233	214	186	143	122	94	116	122	113	154
11	118	115	125	122	308	299	295	298	9	123	141	251	259	214	224	199	4	297	346	(CM)	(CM)	54	129	123	199
12	120	135	129	114	115	(CM)	(CM)	4	344	281	296	299	299	295	303	353	358	22	88	73	48	63	77	120	35
13	(CM)	(CM)	(CM)	122	121	126	135	143	292	279	282	303	297	289	270	239	297	287	338	66	54	71	108	112	299
14	138	136	135	136	129	133	118	127	123	177	200	185	191	185	236	225	239	223	211	147	114	118	(CM)	(CM)	163
15	104	115	116	125	110	119	152	168	180	177	186	160	159	291	152	249	267	15	135	267	140	129	118	147	151
16	103	124	125	130	119	126	139	147	189	233	166	193	256	308	290	325	310	338	32	(CM)	(CM)	(CM)	(CM)	(CM)	161
17	(CM)	(CM)	(CM)	(CM)	307	333	(CM)	126	(CM)	292	335	305	345	311	297	293	333	279	307	287	281	278	283	290	303
18	338	320	295	28	(CM)	(CM)	63	318	290	289	307	287	297	210	120	96	102	225	(CM)	38	42	61	110	119	358
19	127	134	112	122	134	134	122	139	125	173	166	166	166	147	155	172	154	158	146	118	118	124	122	122	299
20	143	117	107	83	104	114	115	133	153	144	187	189	165	125	125	152	195	208	191	111	124	109	101	60	135
21	118	95	127	110	118	115	110	169	180	191	191	205	233	202	228	214	220	231	225	252	251	(CM)	90	88	175
22	102	66	107	111	109	116	116	125	303	324	299	297	348	9	305	298	343	97	60	62	58	59	60	63	50
23	81	124	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	272	288	341	69	27	357	355	356	11	1	14	40	82	118	125	111	36
24	109	122	111	124	138	136	137	138	298	289	143	116	144	263	353	135	149	155	115	95	107	133	125	131	130
25	132	108	110	113	108	126	138	142	152	290	297	284	98	169	192	117	110	55	71	127	115	123	127	132	124
26	130	(CM)	107	112	117	140	121	125	130	109	295	215	197	198	241	231	240	268	241	230	268	274	270	239	199
27	225	17	65	72	103	119	117	102	207	175	273	208	286	329	260	226	253	332	301	290	339	218	12	12	281
28	256	110	105	(CM)	(CM)	(CM)	(CM)	99	315	294	316	346	245	284	285	279	308	11	36	57	11	51	50	123	351
29	119	120	315	96	(CM)	121	112	349	315	291	325	329	318	337	338	4	112	139	56	66	84	122	131	132	56
30	113	117	124	112	133	118	114	145	174	248	304	283	264	262	230	261	277	305	297	31	123	126	130	125	168
31	130	130	132	(CM)	(CM)	122	118	236	104	92	101	114	191	124	119	116	120	92	94	118	130	124	122	116	121
PV	118	110	112	112	114	119	122	127	229	248	262	262	263	264	248	244	252	285	23	59	93	110	106	110	133

WIND DIRECTION @ 10M
DEGREES

CR-TRACT
TRAILER AA23
MAY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	PREV
1	243	218	209	243	217	281	145	58	358	324	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
2	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	192
3	193	152	159	270	139	202	98	331	314	259	107	348	329	314	323	277	142	138	279	262	147	107	63	90	197
4	173	198	233	(CM)	247	(CM)	51	66	74	82	55	2	14	5	350	350	111	2	351	55	169	196	190	275	41
5	185	215	208	224	(CM)	158	135	96	163	142	170	209	205	227	210	149	177	172	170	183	157	196	241	114	179
6	144	143	201	269	185	91	123	125	193	205	207	208	216	225	214	217	208	329	347	327	319	322	339	346	220
7	291	285	240	226	180	203	156	(CM)	317	312	297	320	345	263	255	251	240	239	235	224	223	256	239	220	252
8	199	200	270	120	180	135	86	277	327	336	347	347	337	358	296	307	259	245	341	353	319	265	355	350	310
9	342	311	298	308	326	334	295	298	346	11	11	12	314	316	13	338	346	349	17	354	232	219	218	235	324
10	219	162	161	131	113	125	92	205	241	274	259	286	292	288	292	207	220	192	169	201	192	190	184	178	203
11	180	181	202	193	255	299	304	314	146	149	249	243	242	226	235	195	329	277	11	20	151	172	162	182	221
12	169	137	204	84	101	346	338	299	338	338	303	302	308	278	284	356	13	32	37	152	177	205	(CM)	123	333
13	197	243	255	251	256	20	225	196	10	34	332	341	320	342	14	6	11	336	339	70	166	229	225	149	307
14	119	121	109	118	110	126	142	205	216	223	217	227	210	213	221	222	225	225	201	205	210	188	102	187	185
15	202	195	180	180	185	184	177	189	204	207	197	193	187	249	174	235	229	217	205	222	198	185	184	195	198
16	150	103	157	141	152	167	181	198	222	229	218	221	216	230	254	229	321	338	17	172	185	199	(CM)	173	196
17	217	226	226	219	287	273	225	222	259	269	320	330	341	315	330	309	333	295	313	305	309	303	292	291	286
18	305	299	288	311	24	35	285	256	237	310	328	335	18	132	131	156	180	212	210	212	233	(CM)	199	225	260
19	135	191	132	99	112	135	141	151	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()
20	191	162	130	86	149	140	134	182	198	173	210	209	206	173	162	225	219	224	224	193	189	173	175	201	182
21	185	167	154	177	149	191	134	197	204	(PF)	217	219	224	222	223	224	226	227	230	(PF)	208	226	223	215	203
22	205	208	216	231	229	211	225	244	298	311	285	296	330	20	318	284	0	67	55	133	115	122	13	18	280
23	138	155	278	260	278	279	318	339	312	334	69	37	8	18	10	17	29	24	32	48	126	161	231	216	355
24	229	(CM)	(CM)	219	163	207	90	94	112	220	144	201	144	254	319	111	95	159	214	222	152	172	180	151	171
25	297	135	168	207	126	135	104	60	230	236	308	10	105	211	216	133	143	45	99	138	156	154	151	35	144
26	205	225	194	304	125	182	135	110	111	225	221	208	214	218	231	229	237	231	238	233	225	232	215	201	213
27	201	171	177	124	179	194	178	215	216	219	(PF)	(PF)	(PF)	(PF)	230	227	246	286	331	310	15	190	220	235	216
28	150	176	152	187	292	237	135	74	62	22	333	356	217	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	153
29	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	356	321	3	7	12	85	65	57	69	124	132	157	217	56
30	199	263	195	164	212	236	315	70	32	326	300	276	185	228	311	316	269	323	322	267	233	205	207	241	257
31	86	171	165	298	266	123	193	221	179	169	152	114	213	168	157	166	167	203	205	166	156	93	136	214	171
PV	192	188	196	205	191	184	149	192	245	267	265	293	263	259	265	245	226	260	296	200	187	191	197	200	221

CR-TRACT
TRAILER AA23
MAY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	PREV
1	330	131	197	275	307	(CM)	96	52	355	319	(CM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
2	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	199
3	185	151	150	268	126	188	90	325	309	270	98	343	324	309	319	274	135	134	270	267	193	107	(CM)	63	224
4	143	167	163	(CM)	270	230	338	70	73	71	53	359	8	3	347	345	100	0	348	53	135	121	137	318	46
5	102	201	160	183	(CM)	134	128	90	153	131	161	202	197	221	204	139	170	162	161	176	148	190	238	107	164
6	139	144	205	262	183	84	115	117	187	199	201	203	208	219	207	210	204	324	345	325	314	317	329	338	216
7	287	286	262	245	146	163	155	248	312	305	289	313	339	258	249	246	234	234	232	227	226	278	275	232	255
8	190	128	284	99	159	210	68	271	323	330	341	341	332	351	292	301	255	243	322	348	313	264	348	349	309
9	335	309	304	311	327	331	298	294	343	8	8	11	316	314	0	335	340	339	11	0	(CM)	225	172	245	327
10	201	137	145	136	126	126	93	207	237	269	253	278	287	281	(CM)	201	212	184	161	194	185	183	175	170	191
11	171	173	197	188	249	296	301	312	(CM)	151	242	239	237	221	230	189	323	271	5	16	105	147	135	141	218
12	147	167	210	95	100	340	28	299	338	331	297	296	301	272	278	349	8	27	32	129	147	158	321	102	348
13	139	245	174	267	275	324	266	(CM)	16	29	327	334	312	335	6	359	5	330	335	55	139	230	184	145	322
14	110	123	114	112	124	166	144	201	211	217	211	223	204	207	216	215	220	219	195	201	203	176	191	178	185
15	189	188	168	171	172	175	168	181	199	201	191	185	179	272	164	231	223	211	200	218	191	175	174	188	191
16	144	119	153	122	133	155	172	192	216	224	211	214	211	223	247	225	316	332	12	155	170	202	301	182	193
17	221	235	231	257	285	276	223	219	252	264	309	325	333	310	323	303	327	292	311	305	308	300	290	292	284
18	308	305	294	312	14	31	291	247	232	306	326	332	14	128	125	140	169	205	207	198	203	9	197	173	262
19	166	170	125	89	99	112	139	143	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()
20	179	154	123	82	139	129	130	174	193	164	204	204	199	165	153	218	214	219	220	189	182	167	167	190	175
21	178	161	138	170	139	184	130	192	198	(PF)	211	215	220	218	218	218	220	221	225	(PF)	209	226	228	239	200
22	198	209	214	230	225	204	220	237	293	303	278	289	324	16	309	280	342	58	49	118	109	97	21	22	278
23	101	101	342	304	298	299	317	340	305	327	60	34	6	12	4	12	24	18	25	41	90	116	158	278	8
24	289	0	(CM)	107	127	161	98	94	94	215	132	193	136	256	307	100	88	155	212	217	103	121	138	124	138
25	129	45	129	259	93	126	94	55	220	227	303	0	99	206	211	123	132	42	90	125	143	152	143	34	121
26	48	195	143	300	256	155	145	98	101	224	217	203	208	211	226	223	231	226	234	228	218	226	208	195	206
27	193	163	169	133	167	182	167	210	209	213	(PF)	(PF)	(PF)	(PF)	(PF)	225	220	240	282	326	308	8	174	196	206
28	134	154	155	117	302	243	164	70	55	20	336	355	215	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	114
29	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	2	8	73	55	47	63	96	88	110	143	48
30	225	323	217	129	112	(CM)	325	62	31	321	296	270	180	218	295	313	262	319	318	269	241	215	197	237	267
31	68	161	158	281	260	109	189	219	175	161	140	104	211	155	147	159	159	195	196	170	159	112	122	221	166
32	166	168	178	195	172	173	141	193	248	263	260	288	258	256	257	241	222	255	292	188	170	179	186	190	216

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WIND DIRECTION @ 60M
DEGREES

CR-TRACT
TRAILER AA23
MAY 1981

OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	PREV
1	349	158	99	7	334	274	67	64	2	330	309	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
2	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	203
3	199	173	165	264	135	195	127	336	318	278	107	355	336	321	329	287	(CM)	152	290	291	233	147	248	53	255
4	131	166	169	225	240	(CM)	287	90	83	77	62	7	13	12	357	353	108	8	356	63	132	131	141	37	68
5	125	194	149	161	129	139	143	113	163	140	172	209	204	227	211	151	181	173	171	188	161	201	246	122	169
6	159	167	220	267	199	103	140	140	193	207	209	211	215	225	214	218	213	335	353	336	324	326	330	343	225
7	300	300	287	276	135	170	173	258	321	314	299	323	346	267	256	253	241	242	242	248	247	298	326	280	273
8	191	127	279	157	161	247	215	278	333	341	350	352	342	354	303	311	270	248	321	357	324	286	355	3	307
9	348	323	320	331	345	346	317	309	352	21	18	20	329	325	0	348	347	345	20	12	71	157	144	250	349
10	293	134	169	189	180	179	176	219	245	276	263	288	295	291	247	212	218	192	172	206	197	192	186	184	214
11	183	185	205	200	255	303	307	315	262	187	248	248	244	229	238	199	329	284	17	27	100	147	134	141	232
12	148	196	225	125	126	326	29	321	347	335	305	306	310	282	288	360	20	39	45	134	143	141	320	98	354
13	129	278	299	291	307	296	310	(CM)	28	39	341	349	320	344	15	2	13	339	343	67	144	188	196	179	336
14	130	150	146	190	197	194	165	208	221	224	217	231	210	215	224	222	228	225	205	210	220	187	201	193	201
15	200	201	177	194	184	187	180	191	207	208	201	194	189	279	176	239	231	222	208	226	202	186	183	198	206
16	163	149	178	155	155	169	185	202	225	230	216	221	220	235	253	231	325	343	20	157	178	219	253	214	298
17	249	266	251	284	294	287	235	231	259	272	319	336	342	320	333	313	337	306	323	317	321	314	305	311	276
18	326	323	313	325	14	30	313	258	243	315	336	341	22	142	131	149	179	213	218	210	203	305	229	198	()
19	176	171	145	109	122	125	153	152	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()
20	184	168	138	104	153	139	150	185	202	176	212	211	205	176	166	225	221	227	229	202	194	184	180	199	186
21	189	175	155	184	153	194	150	200	208	(PF)	219	225	228	224	226	226	229	229	234	(PF)	223	240	256	273	212
22	212	225	231	243	238	223	231	245	301	311	287	297	331	23	318	293	338	66	61	124	115	111	23	37	289
23	101	90	11	341	321	317	327	344	312	332	69	46	14	21	13	22	35	29	38	57	85	109	118	9	25
24	320	291	199	126	144	151	137	125	99	233	143	199	154	273	310	115	99	198	224	230	100	112	131	127	159
25	143	346	123	227	135	141	109	(CM)	231	239	311	0	113	215	217	133	145	56	102	133	151	162	160	43	145
26	50	146	139	327	344	166	185	114	116	224	225	210	216	218	234	231	238	233	242	235	225	233	216	205	211
27	207	176	183	149	179	191	179	216	215	222	(PF)	(PF)	(PF)	(PF)	233	227	246	291	339	320	17	166	189	240	213
28	153	159	169	128	315	268	214	94	65	27	348	0	228	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	138
29	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	2	327	6	13	21	79	60	55	76	92	79	106	144	54
30	236	315	246	197	119	132	240	101	42	328	303	280	194	224	300	318	273	326	328	282	259	251	219	242	265
31	71	176	174	276	271	121	202	230	192	173	151	115	223	164	159	172	172	200	205	192	182	171	163	245	183
PV	176	187	190	210	183	190	188	204	257	271	272	297	266	265	263	248	239	263	301	211	175	180	199	199	228

WIND DIRECTION @10M

C-B TRACT
MRI AD42

May, 1981

DATA NOT AVAILABLE AT REPORT TIME

WIND DIRECTION @10M

C-B TRACT
MRI AD56
May, 1981

DATA NOT AVAILABLE AT REPORT TIME

WIND DIRECTION AND
VECTOR AVERAGE VELOCITY (DEG & MPS)
10 METER LEVEL

CR-TRACT
TRAILER AR20
MAY 1981
OCCIDENTAL OIL SHALE, INC.

DAY	HOUR (LOCAL STANDARD TIME)																								VECTOR		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DIR	VEL	
1	103	108	125	100	90	80	107	120	285	275	300	315	290	315	240	205	295	***	***	***	***	105	100	100	100	227	0.1
2	***	***	***	***	***	***	***	***	***	141	172	189	188	187	183	199	100	135	295	***	***	***	***	***	***	***	***
3	***	***	***	***	***	***	***	***	***	***	141	324	309	301	284	283	110	130	312	323	121	124	129	121	301	1.2	
4	130	***	***	***	***	***	134	135	139	127	81	338	312	319	329	282	266	338	28	83	132	124	129	131	23	0.1	
5	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
6	92	94	112	270	75	97	112	97	79	187	192	175	149	224	190	197	207	319	323	316	313	301	309	15	175	0.7	
7	62	92	98	128	122	115	115	98	289	299	294	299	300	276	263	281	260	242	237	37	352	304	236	62	65	303	0.6
8	129	135	117	123	130	132	135	83	293	310	339	319	301	236	255	284	216	118	109	352	304	236	109	116	121	279	1.0
9	299	313	349	315	318	315	303	298	280	336	75	74	307	268	269	291	277	305	17	43	90	115	130	117	310	0.6	
10	118	135	140	140	139	138	135	134	96	289	292	286	277	278	189	233	214	186	143	122	94	116	122	113	151	1.3	
11	118	115	125	122	308	290	295	298	9	123	141	251	259	214	224	199	4	297	346	***	***	54	129	123	269	0.8	
12	120	135	129	114	115	***	***	4	344	281	296	299	299	295	303	353	358	22	88	73	48	63	77	120	329	1.2	
13	***	***	***	122	121	126	135	143	292	279	282	303	297	289	270	239	297	287	338	66	54	71	108	112	278	0.2	
14	128	136	135	136	129	133	118	127	123	177	200	185	191	185	236	225	239	223	211	147	114	118	***	***	173	2.1	
15	104	115	116	125	110	119	152	168	180	177	186	160	159	291	152	249	267	15	135	267	140	129	118	147	165	1.7	
16	103	124	125	130	119	126	139	147	189	233	166	193	256	308	290	325	310	338	32	***	***	***	***	***	211	0.3	
17	***	***	***	***	307	333	***	126	***	292	335	305	345	311	297	293	333	279	307	287	281	278	283	290	301	1.8	
18	338	320	295	28	***	***	63	318	290	289	307	297	297	210	120	96	102	225	***	38	42	61	110	119	30	0.2	
19	127	134	112	122	134	134	122	139	125	173	166	166	166	147	155	172	154	158	146	118	118	124	122	122	142	3.4	
20	143	117	107	83	104	114	115	133	153	144	187	189	165	125	125	152	195	208	191	111	124	109	101	60	131	3.0	
21	118	95	127	110	118	115	110	169	180	191	191	205	233	202	228	214	220	231	225	252	251	***	90	88	187	2.1	
22	102	66	107	111	109	116	116	125	303	324	299	297	348	9	305	298	343	97	60	62	58	59	60	63	350	0.6	
23	81	124	***	***	***	***	***	***	272	288	341	69	27	357	355	356	11	1	14	40	82	118	125	111	23	0.8	
24	109	122	111	124	138	136	137	138	298	289	143	116	144	263	353	135	149	155	115	95	107	133	125	131	133	1.5	
25	132	108	110	113	108	126	138	142	152	290	297	284	98	169	192	117	110	55	71	127	115	123	127	132	123	1.2	
26	130	***	107	112	117	140	121	125	130	109	295	215	197	198	241	231	240	268	241	230	268	274	270	239	215	1.1	
27	225	17	65	72	103	119	117	102	207	175	273	208	286	329	260	226	253	332	301	290	339	218	12	12	278	0.6	
28	256	110	105	***	***	***	***	99	315	294	316	346	245	284	285	279	308	11	36	57	11	51	50	123	318	0.7	
29	119	120	315	96	***	121	112	349	315	291	325	329	318	337	338	4	112	139	56	66	84	122	131	132	22	0.5	
30	113	117	124	112	133	118	114	145	174	248	304	283	264	262	230	261	277	305	297	31	123	126	130	125	204	0.3	
31	130	130	132	***	***	122	118	236	104	92	101	114	191	124	119	116	120	92	94	118	130	124	122	116	116	2.2	
VD	115	115	118	114	118	124	125	136	186	220	239	244	250	246	238	250	249	274	348	59	91	120	113	116	156		
VV	1.4	1.7	1.6	1.3	1.4	1.4	1.4	1.1	0.5	0.8	1.0	1.2	1.3	1.3	1.3	1.3	0.8	0.4	0.2	0.4	0.5	0.7	1.1	1.1	1.1	0.5	

TOTAL NUMBER OF OBSERVATIONS = 647

NOTE: *** = MISSING DATA

WIND DIRECTION AND
VECTOR AVERAGE VELOCITY (DEG & MPS)
10 METER LEVEL

CH-TRACT
TRAILER AA23
MAY 1981
OCCIDENTAL OIL SHALE, INC.

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	VECTOR DIR VEL
1	243	219	209	243	217	241	145	58	358	324	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
2	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
3	193	152	159	270	139	202	99	331	314	259	107	348	329	314	323	277	142	138	279	262	147	107	63	90	284
4	173	198	233	***	247	***	51	66	74	82	55	2	14	5	350	350	111	2	351	55	169	196	190	275	29
5	185	215	204	224	***	158	135	96	163	142	170	209	205	227	210	149	177	172	170	183	157	196	241	114	184
6	144	143	201	269	186	91	123	125	193	205	207	208	216	225	214	217	208	329	347	327	319	322	339	346	225
7	291	245	240	226	190	203	156	***	317	312	297	320	345	263	255	251	240	239	345	224	223	256	239	220	261
8	199	200	270	120	180	135	86	277	327	336	347	347	337	358	296	307	259	245	341	353	319	265	355	350	322
9	342	311	298	308	326	334	295	298	346	11	12	12	314	316	13	338	346	349	17	354	232	219	218	235	325
10	219	162	161	131	113	125	92	205	241	274	259	286	292	288	292	207	220	192	169	201	192	190	184	178	199
11	180	181	202	193	255	299	304	314	146	149	249	243	242	226	235	195	329	277	11	20	151	172	162	182	233
12	169	137	204	84	101	346	338	299	338	338	303	302	308	278	284	356	13	32	37	152	177	205	***	123	329
13	197	243	255	251	256	20	225	196	10	34	332	341	320	342	14	6	11	336	339	70	166	229	225	149	316
14	119	121	103	118	110	126	142	205	216	223	217	227	210	213	221	222	225	225	201	205	210	188	102	187	203
15	202	195	180	180	186	184	177	149	204	207	197	193	187	249	174	235	229	217	205	222	198	185	184	195	199
16	150	103	157	141	152	167	181	198	222	229	218	221	216	230	254	229	321	338	17	172	185	199	***	173	215
17	217	226	226	219	287	273	225	222	259	269	320	330	341	315	330	309	333	295	313	305	309	303	292	291	298
18	305	299	288	311	24	35	285	256	237	310	328	335	18	132	131	156	180	212	210	212	233	***	199	225	254
19	135	191	132	99	112	135	141	151	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
20	191	162	130	86	149	140	134	182	198	173	210	209	206	173	162	225	219	224	224	193	189	173	175	201	184
21	185	167	154	177	149	191	134	197	204	***	217	219	224	222	223	224	226	227	230	***	209	226	223	215	209
22	205	208	216	231	229	211	225	244	298	311	285	296	330	20	318	284	0	67	55	133	115	122	13	18	271
23	138	155	278	260	278	279	318	339	312	334	69	37	8	18	10	17	29	24	32	48	126	161	231	216	12
24	229	***	***	219	163	207	90	94	112	220	144	201	144	254	319	111	95	159	214	222	152	172	180	151	175
25	297	135	168	207	126	135	104	60	230	236	308	10	105	211	216	133	143	45	99	138	156	164	151	35	169
26	205	225	194	304	215	192	135	110	111	225	221	208	214	218	231	229	237	231	238	233	225	232	215	201	222
27	201	171	177	124	179	194	178	115	216	219	***	***	***	***	230	227	246	286	331	310	15	190	220	235	231
28	150	176	152	187	292	237	135	74	62	22	333	356	217	***	***	***	***	***	***	***	***	***	***	***	165
29	***	***	***	***	***	***	***	***	***	***	***	356	321	3	7	12	85	65	57	69	124	132	157	217	20
30	199	263	195	164	212	236	315	70	32	326	300	276	185	228	311	316	269	323	322	267	233	205	207	241	270
31	86	171	165	298	266	123	193	221	179	169	152	114	213	168	157	166	167	203	205	166	156	93	136	214	174
VD	186	187	184	199	191	194	164	203	226	238	238	252	245	239	238	241	231	241	253	215	200	202	190	195	220
VV	1.2	1.4	1.3	0.8	0.8	0.8	0.7	1.2	1.4	1.3	1.9	1.7	1.7	2.4	2.1	1.9	1.7	1.4	0.8	1.2	1.4	1.4	1.3	1.0	1.2

TOTAL NUMBER OF OBSERVATIONS = 665

NOTE: *** = MISSING DATA

WIND DIRECTION AND
VECTOR AVERAGE VELOCITY (DFG & MPS)
30 METER LEVEL

CR-TRACT
TRAILER AA23
MAY 1981
OCCIDENTAL OIL SHALE, INC.

DAY	HOUR (LOCAL STANDARD TIME)												VECTOR														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DIR	VEL	
1	330	131	197	275	307	***	96	52	355	319	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	
2	***	***	***	***	***	***	***	***	***	***	***	***	205	213	208	202	169	193	239	104	342	***	***	166	173	206	4.4
3	185	151	150	268	126	188	90	325	309	270	98	343	324	309	319	274	135	134	270	267	193	107	***	63	275	0.4	
4	143	167	163	***	270	230	338	70	73	71	53	359	8	3	347	345	100	0	348	53	135	121	137	318	48	0.5	
5	192	201	160	183	***	134	128	90	153	131	161	202	197	221	204	139	170	162	161	176	148	190	238	107	172	3.8	
6	139	144	205	262	183	84	115	117	187	199	201	208	219	207	210	204	324	324	345	325	314	317	329	338	220	2.8	
7	287	286	262	245	146	163	155	248	312	305	289	313	339	258	249	246	234	234	232	227	226	278	275	232	260	2.6	
8	190	128	284	99	159	210	68	271	323	330	341	341	332	351	292	301	255	243	322	348	313	264	348	349	317	2.3	
9	335	309	304	311	327	331	294	294	343	8	8	11	316	314	0	335	340	339	11	0	***	225	172	245	329	1.9	
10	201	137	145	136	126	126	93	207	237	269	253	278	287	281	***	201	212	184	161	194	185	183	175	170	192	2.7	
11	171	173	197	188	249	296	301	312	***	151	242	239	237	221	230	189	323	271	5	16	105	147	135	141	226	2.7	
12	147	167	210	95	100	340	28	299	338	331	297	296	301	272	278	349	8	27	32	129	147	158	321	102	327	1.4	
13	139	245	174	267	275	324	266	***	16	29	327	334	312	335	6	359	5	330	335	55	139	230	184	145	332	0.7	
14	110	123	114	112	124	166	144	201	211	217	211	223	204	207	216	215	220	219	195	201	203	176	191	178	200	4.7	
15	189	188	168	171	172	175	168	181	199	201	191	185	179	272	164	231	223	211	200	218	191	176	174	188	191	6.2	
16	144	119	153	122	133	155	172	192	216	224	211	214	211	223	247	225	316	332	12	155	170	202	301	182	206	1.9	
17	221	235	231	257	285	276	223	219	252	264	309	325	333	310	323	303	327	292	311	305	308	300	290	292	295	2.5	
18	308	305	294	312	14	31	291	247	232	306	326	332	14	128	125	140	169	205	207	198	203	9	197	173	254	0.6	
19	166	170	125	89	99	112	139	143	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	
20	179	154	123	82	139	129	130	174	193	164	204	204	199	165	153	218	214	219	220	189	182	167	167	190	176	6.4	
21	178	161	138	170	139	184	130	192	198	***	211	215	220	218	218	218	220	221	225	***	209	226	228	239	204	7.1	
22	198	209	214	230	225	205	220	237	293	303	278	289	324	14	309	280	342	58	49	118	109	97	21	22	259	1.8	
23	101	101	342	304	298	298	317	340	305	327	60	34	6	12	4	12	24	18	25	41	90	116	158	278	15	1.5	
24	289	0	***	107	127	161	98	94	94	215	132	193	136	256	307	100	88	155	212	217	103	121	138	124	158	1.0	
25	129	45	129	259	93	126	94	55	220	227	303	0	99	206	211	123	132	42	90	125	143	152	143	34	149	1.0	
26	48	196	143	300	256	155	145	98	101	224	217	203	208	211	226	223	231	226	234	228	218	226	208	195	216	3.8	
27	193	163	169	133	167	182	167	210	209	213	***	***	***	***	225	220	240	282	326	308	8	174	196	230	222	2.5	
28	134	154	156	117	302	243	154	70	55	20	336	355	215	***	***	***	***	***	***	***	***	***	***	***	***	146	0.4
29	***	***	***	***	***	***	***	***	***	***	***	352	316	355	2	8	73	55	47	63	96	88	110	143	22	1.7	
30	225	323	217	129	112	***	325	62	31	321	296	270	180	218	295	313	262	319	318	269	241	215	197	237	278	1.0	
31	68	161	158	281	260	109	189	219	175	161	140	104	211	155	147	159	159	195	196	170	159	112	122	221	170	2.5	
VD	170	173	169	194	178	177	159	197	219	231	231	245	238	235	232	235	224	236	246	207	186	196	185	183	212		
VV	1.6	1.8	1.9	0.9	0.9	1.1	1.1	1.6	2.0	1.6	2.5	2.2	2.2	3.2	2.8	2.6	2.3	1.9	1.1	1.6	1.9	1.6	1.8	1.2		1.6	

TOTAL NUMBER OF OBSERVATIONS = 664

NOTE: *** = MISSING DATA

WIND DIRECTION AND
VECTOR AVERAGE VELOCITY (DEG & MPS)
60 METER LEVEL

CB-TRACT
TRAILER AA23
MAY 1981
OCCIDENTAL OIL SHALE, INC.

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	VECTOR DIR VEL	
1	349	158	99	7	334	274	67	64	2	330	309	***	***	***	***	***	***	***	***	***	***	***	***	***	***	
2	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	
3	199	173	165	264	135	195	127	336	318	278	107	355	336	321	329	287	***	152	290	291	233	147	248	53	266	0.7
4	131	166	149	225	240	***	287	90	83	77	62	7	13	12	357	353	108	8	356	63	132	131	141	37	61	0.8
5	125	194	149	161	129	139	143	113	163	140	172	209	204	227	211	151	181	173	171	188	161	201	246	122	181	4.2
6	159	167	220	267	199	103	140	140	193	207	209	211	215	225	214	218	213	335	353	336	324	326	330	343	227	3.3
7	300	300	287	276	135	170	173	258	321	314	299	323	346	267	256	253	241	242	242	248	247	298	326	280	273	3.0
8	191	127	279	157	161	247	215	278	333	341	350	352	342	354	303	311	270	248	321	357	324	286	355	3	326	2.7
9	348	323	320	331	345	346	317	309	352	21	18	20	329	325	0	348	347	345	20	12	71	157	144	250	345	2.2
10	293	138	169	189	180	179	176	219	245	276	263	288	295	291	247	212	218	192	172	206	197	192	186	184	207	3.2
11	183	185	205	200	255	303	307	315	262	187	248	248	244	229	238	199	329	284	17	27	100	147	134	141	233	3.0
12	148	196	225	125	126	326	29	321	347	335	305	306	310	282	288	360	20	39	45	134	143	141	320	98	336	1.5
13	129	278	299	291	307	296	310	***	28	39	341	349	320	344	15	2	13	339	343	67	144	188	196	179	338	1.0
14	130	150	146	180	197	194	165	208	221	224	217	231	210	215	224	222	228	225	205	210	220	187	201	193	211	5.5
15	200	201	177	184	184	187	180	191	207	208	201	194	189	279	176	239	231	222	208	226	202	186	183	198	201	7.0
16	163	149	178	155	155	169	145	202	225	230	216	221	220	235	253	231	325	343	20	157	178	219	253	214	215	2.4
17	249	266	251	284	294	287	235	231	259	272	319	336	342	320	333	313	337	306	323	317	321	314	305	311	305	3.0
18	326	323	313	325	14	30	313	258	243	315	336	341	22	142	131	149	179	213	218	210	203	305	229	198	269	0.7
19	176	171	145	109	122	125	153	152	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
20	184	164	138	104	153	139	150	185	202	176	212	211	205	176	166	225	221	227	229	202	194	184	180	199	188	7.5
21	189	175	155	184	153	194	150	200	208	***	219	225	228	224	226	226	229	229	234	***	223	240	256	273	213	8.1
22	212	225	231	243	238	223	231	245	301	311	287	297	331	23	318	293	338	66	61	124	115	111	23	37	268	2.2
23	101	90	11	341	321	317	327	344	312	332	69	46	14	21	13	22	35	29	38	57	85	109	118	9	26	2.0
24	320	291	199	126	144	151	137	125	99	233	143	199	154	273	310	115	99	198	224	230	100	112	131	127	169	1.2
25	143	346	123	227	135	141	104	***	231	239	311	0	113	215	217	133	145	56	102	133	151	162	160	43	168	1.3
26	50	146	139	327	344	166	185	114	116	224	225	210	216	218	234	231	238	233	242	235	225	233	216	205	223	4.0
27	207	176	133	149	179	191	179	216	215	222	***	***	***	***	233	227	246	291	339	320	17	166	189	240	226	2.9
28	153	159	169	128	315	268	214	94	65	27	348	0	228	***	***	***	***	***	***	***	***	***	***	***	160	0.5
29	***	***	***	***	***	***	***	***	***	***	***	2	327	6	13	21	79	60	55	76	92	79	106	144	36	2.1
30	236	315	246	197	119	132	240	101	42	328	303	280	194	224	300	318	273	326	328	282	259	251	219	242	279	1.2
31	71	176	174	276	271	121	202	230	192	173	151	115	223	164	159	172	172	200	205	192	182	171	163	245	189	3.1
VD	185	187	187	210	195	197	185	208	228	241	241	253	246	243	239	244	233	243	253	219	197	200	198	197	222	
VV	1.9	2.2	2.0	1.2	1.2	1.4	1.6	2.1	2.1	1.9	2.5	2.3	2.4	3.4	2.9	2.8	2.6	2.2	1.3	1.8	2.1	1.9	1.9	1.5		1.9

TOTAL NUMBER OF OBSERVATIONS = 671

NOTE: *** = MISSING DATA

SIGMA HORIZ. WIND DIR. @10M
DEGREES

CR-TRACT
TRAILER AB20
MAY 1981
OCCIDENTAL OIL SHALE INC.

hour (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK	
1	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()		
2	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()		
3	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	()	()	
4	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	()	()	
5	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()	
6	15	12	7	15	10	11	9	10	10	24	18	19	22	24	27	22	24	11	5	14	11	11	2	14	27		
7	4	5	3	3	6	6	4	0	16	14	12	20	20	16	18	15	19	15	11	11	(CM)	6	4	6	10	20	
8	5	4	2	5	5	6	5	20	13	16	19	15	16	11	19	16	10	4	1	20	12	9	2	2	10	20	
9	12	4	5	5	6	2	4	5	10	18	21	27	19	18	16	13	11	7	4	4	0	2	3	3	9	27	
10	3	8	4	5	7	5	5	3	7	18	16	16	25	23	17	15	15	14	6	2	8	10	9	10	10	25	
11	6	5	8	8	14	12	12	12	9	6	13	22	18	19	16	15	10	13	24	(CM)	(CM)	7	5	3	12	24	
12	7	14	9	11	2	(CM)	(CM)	0	2	6	14	13	17	12	15	19	26	21	8	7	3	0	1	5	10	26	
13	(CM)	(CM)	(CM)	(CM)	7	4	5	7	18	12	17	18	24	19	14	21	13	8	5	16	5	4	4	5	11	24	
14	8	6	5	8	9	8	5	2	3	24	19	22	23	25	20	26	21	22	21	10	8	7	(CM)	(CM)	14	26	
15	8	16	9	3	4	6	7	17	22	22	21	17	13	13	13	18	21	15	10	21	16	7	6	11	13	22	
16	9	6	3	4	6	8	13	14	12	27	22	26	19	20	20	16	15	19	3	(CM)	(CM)	(CM)	(CM)	(CM)	14	27	
17	(CM)	(CM)	(CM)	(CM)	11	9	9	2	(CM)	16	23	14	18	21	15	11	7	7	9	9	8	7	5	5	11	23	
18	2	3	8	1	(CM)	(CM)	1	9	2	18	17	18	19	15	10	8	7	0	(CM)	3	2	0	3	4	7	19	
19	6	5	5	8	5	5	3	3	8	19	19	19	18	16	17	21	17	18	14	3	5	6	9	10	11	21	
20	13	10	9	11	11	5	7	13	18	14	20	22	18	12	11	13	19	21	24	12	10	10	9	11	13	24	
21	5	8	5	10	12	8	10	23	22	26	22	24	22	21	19	25	20	20	13	14	34	(CM)	6	3	16	34	
22	5	6	2	1	2	3	1	5	12	11	8	10	8	13	16	7	11	6	5	0	1	1	0	0	6	16	
23	1	1	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	6	2	10	7	27	19	21	24	19	5	2	1	3	3	1	2	9	27	
24	3	6	5	6	5	6	5	4	11	6	13	12	14	11	4	3	4	6	1	4	3	4	9	10	6	14	
25	5	3	3	2	1	4	5	2	1	5	8	13	3	12	14	6	4	14	3	4	2	4	5	15	6	15	
26	14	(CM)	4	1	2	14	5	6	4	11	10	19	24	22	21	18	15	14	15	13	6	11	2	1	11	24	
27	8	3	0	0	4	3	1	2	9	17	17	21	18	11	23	21	18	22	14	4	14	11	7	8	11	23	
28	7	1	1	(CM)	(CM)	(CM)	(CM)	1	7	2	8	12	12	9	12	9	12	7	19	4	8	1	10	5	7	19	
29	7	8	15	5	(CM)	1	1	9	8	8	13	10	22	23	17	12	7	3	6	1	6	5	6	5	9	23	
30	5	5	7	7	8	2	1	2	3	1	17	6	14	16	24	13	14	8	7	6	4	4	2	10	8	24	
31	9	6	5	(CM)	(CM)	7	9	11	9	9	11	11	6	10	8	7	7	6	4	5	5	4	4	10	7	11	
AV	7	6	5	6	6	6	5	7	9	13	16	17	18	17	16	15	13	12	9	8	8	5	5	6	10		
PK	15	16	15	15	14	14	13	23	22	27	23	27	27	25	27	26	26	22	24	21	34	11	10	15		34	

SIGMA HORIZ. WIND DIR. @ 10M
DEGREES

CR-TRACT
TRAILER AA23
MAY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	16	8	14	12	12	16	17	18	25	22	(CM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	25
2	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	18
3	7	14	8	12	9	13	15	20	20	12	19	11	19	8	9	10	13	20	11	10	5	6	30	8	13	30
4	4	9	18	(CM)	10	(CM)	13	19	35	36	28	29	31	28	33	26	32	27	6	11	4	17	10	16	20	36
5	10	7	7	9	(CM)	7	14	11	17	32	18	15	30	16	15	22	12	9	9	8	10	19	14	12	14	32
6	15	21	23	12	12	8	8	11	15	11	10	13	13	13	13	14	12	10	7	8	8	8	31	15	13	31
7	14	16	9	5	7	16	18	(CM)	13	13	18	17	23	22	17	14	13	12	10	6	5	13	9	7	13	23
8	15	16	20	15	7	31	17	17	11	11	11	9	9	32	28	15	15	30	28	17	11	6	11	8	16	32
9	7	7	5	7	8	9	9	17	19	30	28	30	33	34	36	39	30	33	12	13	4	5	6	15	18	39
10	10	9	5	7	5	9	10	11	24	12	18	17	17	11	16	28	22	11	9	13	21	5	5	6	14	32
11	7	7	9	8	10	10	10	11	21	21	18	12	15	17	15	11	10	11	10	8	5	6	(CM)	8	16	40
12	18	25	40	16	13	20	21	16	27	28	34	36	32	41	31	29	27	16	11	8	7	9	11	12	20	41
13	17	17	10	18	14	13	10	30	27	12	11	16	15	16	14	13	11	12	11	8	6	6	7	9	11	22
14	6	4	5	4	8	22	12	21	18	13	13	15	13	14	20	17	13	30	9	8	8	8	7	8	12	30
15	22	10	10	4	5	5	7	10	12	13	13	16	19	17	16	14	11	9	18	3	4	10	(CM)	6	12	19
16	9	18	10	9	13	8	9	11	14	10	14	17	19	18	13	12	11	12	10	8	9	7	7	7	12	30
17	15	5	6	30	11	17	26	11	21	37	38	29	35	26	31	36	15	16	6	5	15	(CM)	7	18	19	38
18	8	7	8	6	12	9	8	9	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	19
19	19	17	8	7	7	8	11	10	9	10	10	9	11	9	10	11	9	8	10	9	7	6	6	14	10	32
20	32	9	8	6	9	10	11	10	10	(PF)	11	10	10	10	10	11	11	9	9	(PF)	7	5	7	17	9	17
21	7	6	6	6	8	7	8	11	11	13	15	15	15	17	12	12	13	11	8	8	9	7	16	7	11	17
22	7	9	8	8	7	7	7	12	11	13	26	31	29	22	18	13	14	9	7	15	9	9	9	7	14	31
23	13	7	12	9	7	8	12	11	15	20	26	31	20	19	31	27	16	19	7	13	15	15	25	12	18	39
24	13	(CM)	(CM)	12	13	12	11	14	39	19	16	23	20	19	31	27	16	19	7	13	15	15	25	12	18	39
25	18	13	8	8	13	11	11	19	11	13	9	33	20	12	22	12	10	15	7	6	11	5	8	9	13	33
26	16	3	8	8	4	9	18	19	34	24	13	13	12	13	13	12	11	11	9	9	8	8	9	6	12	34
27	7	5	6	13	8	16	14	12	11	16	(PF)	(PF)	(PF)	(PF)	14	16	12	13	8	11	18	15	9	15	12	18
28	10	7	11	12	13	5	11	11	16	21	29	47	7	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	15	47
29	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	11	15	16	11	9	13	31	13	6	10	27	27	12	15	31
30	8	11	9	9	12	7	18	26	40	42	29	36	31	36	33	38	12	16	7	5	5	7	13	14	19	42
31	16	15	15	25	10	11	8	10	7	8	21	22	16	11	10	8	8	8	9	9	9	9	10	6	12	25
AV	13	11	11	11	10	12	13	15	19	20	19	21	19	19	19	18	14	15	10	9	9	10	12	11	14	47
PK	32	25	40	30	14	31	26	30	40	42	38	47	35	41	36	39	32	33	28	17	21	27	31	18		

SIGMA HORIZ. WIND DIR. @ 30M
DEGREES

CR-TRACT
TRAILER AA23
MAY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	22	10	17	18	11	(CM)	10	13	23	23	(CM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	23
2	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	18
3	5	14	7	18	6	14	15	19	20	14	17	11	12	7	8	8	16	20	10	15	14	18	7 (CM)	5	12	20
4	10	4	24	(CM)	13	13	12	18	28	29	28	26	27	24	27	23	23	22	5	8	8	3	13	7	14	17
5	23	26	10	13	(CM)	5	12	8	16	29	17	14	29	14	14	20	12	8	8	8	8	23	15	9	15	29
6	14	19	19	16	11	5	6	10	14	10	10	11	13	12	13	13	11	10	6	6	7	7	27	15	12	27
7	14	15	10	6	10	9	14	25	12	11	17	17	24	18	16	13	12	10	9	7	6	12	16	25	14	25
8	18	11	18	14	5	24	28	20	11	10	9	7	8	30	24	13	16	28	28	14	10	5	11	7	15	30
9	7	6	5	5	6	6	9	15	16	26	20	32	31	29	28	36	22	27	11	7	(CM)	10	20	8	17	36
10	35	8	4	20	18	12	11	27	17	25	19	24	24	21	(CM)	34	10	12	9	3	3	5	5	6	15	35
11	6	7	8	8	9	9	9	10	(CM)	16	18	15	15	14	14	10	21	10	9	9	11	4	5	8	11	29
12	9	25	25	15	8	17	18	22	19	20	17	11	14	15	14	10	9	11	9	7	4	6	10	8	13	25
13	21	16	12	15	10	14	17	(CM)	22	21	35	38	29	32	26	26	24	14	10	7	4	25	23	10	20	38
14	4	5	5	8	13	23	10	20	17	9	10	14	14	15	12	12	9	10	10	7	4	5	7	8	10	23
15	16	10	9	4	4	4	7	9	12	12	12	14	13	13	19	16	12	29	9	6	7	8	7	7	11	29
16	7	18	12	4	10	8	8	11	12	14	14	15	18	16	16	12	10	8	15	5	3	10	39	10	12	39
17	7	6	5	37	12	8	18	19	10	8	11	12	11	15	11	10	10	12	10	6	8	6	6	7	11	37
18	8	7	8	5	10	11	24	10	25	41	28	28	27	24	28	28	14	15	4	4	19	18	9	28	18	41
19	14	11	8	4	5	5	6	7	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	14
20	22	8	6	5	8	7	11	10	10	9	10	8	10	9	9	9	8	7	9	9	6	6	4	16	9	22
21	6	4	6	5	8	9	11	9	9	(PF)	11	9	8	9	9	9	10	7	7	(PF)	5	3	5	16	8	16
22	5	6	5	6	7	5	7	11	10	12	14	14	14	15	12	11	18	14	7	6	5	8	11	7	10	18
23	9	6	14	12	8	6	12	12	16	20	16	24	22	19	15	12	12	9	6	8	6	9	12	20	13	24
24	28	12	(CM)	3	17	17	10	13	33	17	13	22	23	17	31	26	17	17	7	11	10	9	21	7	17	33
25	14	19	9	15	9	8	9	24	11	11	8	30	15	12	18	9	8	14	6	5	6	5	6	8	12	30
26	13	11	8	8	10	10	13	16	30	19	12	11	11	12	12	11	11	9	8	7	7	7	8	4	11	30
27	6	4	4	14	7	12	13	11	10	16	(PF)	(PF)	(PF)	(PF)	13	14	10	12	7	9	16	12	12	12	11	16
28	11	6	8	20	11	4	9	9	13	15	24	38	6	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	13	38
29	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	8	14	15	10	9	13	21	11	4	6	11	10	7	11	21
30	9	9	20	14	20	(CM)	28	23	30	29	26	37	28	35	35	33	11	16	6	5	5	13	14	19	20	37
31	13	13	12	26	9	9	8	8	7	6	17	19	18	9	8	7	7	7	7	7	7	17	11	8	11	26
AV	13	11	11	12	10	10	13	15	17	17	17	19	18	17	17	17	13	14	9	7	8	10	12	11	13	41
PK	35	26	25	37	20	24	28	27	33	35	41	38	31	35	35	36	24	29	28	15	19	25	39	28		

CB-TRACT
TRAILER AA23
MAY 1981
OCCIDENTAL OIL SHALE INC.

II-145

TEMPERATURE
DEGREE C

CR-TPACT
TRAILER AB20
MAY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
2	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
3	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
4	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
5	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
6	6	7	6	5	5	5	5	8	11	14	15	15	16	17	17	17	16	14	13	11	8	6	4	4	10	17
7	2	1	0	-2	-3	-3	-1	3	7	7	8	10	11	11	11	10	11	10	10	8	4	1	0	-1	5	11
8	-1	-1	-2	-1	-1	0	1	3	6	6	5	2	1	3	7	6	4	5	5	5	4	3	3	2	3	7
9	2	1	0	1	1	1	2	3	4	7	8	10	10	11	12	13	13	13	12	7	4	2	1	0	6	13
10	0	-1	-1	-1	-1	-1	2	7	12	15	15	16	17	17	18	18	17	17	16	13	10	9	7	7	9	18
11	8	8	10	12	10	8	5	4	1	3	7	9	11	10	10	12	11	11	8	6	3	1	0	-1	7	12
12	0	1	2	2	2	1	2	4	7	10	13	14	14	14	13	9	7	5	5	4	2	0	-1	-2	5	14
13	-2	-2	-2	-3	-3	-3	-1	2	5	7	8	11	12	13	15	15	15	14	11	10	7	4	2	1	6	15
14	1	1	2	2	2	2	5	10	17	19	19	21	22	22	23	23	22	22	21	18	15	12	12	12	14	23
15	10	11	12	10	10	7	10	16	17	17	18	18	17	14	16	18	16	13	12	11	9	9	8	7	13	18
16	5	5	5	5	5	5	6	6	7	9	11	13	12	8	11	11	9	8	7	6	5	5	5	5	7	13
17	5	5	4	4	4	4	3	3	5	6	7	8	8	9	8	9	9	9	9	8	7	7	7	7	6	9
18	7	7	7	6	5	5	5	8	9	12	13	15	17	17	17	18	18	16	16	12	10	8	7	6	11	18
19	6	6	5	5	5	5	7	11	16	19	19	19	20	20	21	21	20	20	20	17	14	14	14	15	14	21
20	14	12	12	11	11	11	11	13	13	15	14	9	11	9	11	9	8	7	6	4	4	4	4	3	9	15
21	3	3	2	2	2	2	4	6	7	7	8	9	9	10	12	12	12	12	12	12	11	10	8	7	8	12
22	6	7	6	6	5	5	6	8	11	10	11	12	13	14	15	15	15	13	13	12	11	10	9	8	10	15
23	7	6	6	6	6	7	7	8	10	11	13	15	17	16	18	18	17	17	17	14	10	8	5	4	11	18
24	3	3	2	2	2	2	5	10	15	17	19	20	19	17	16	18	19	15	15	14	12	10	10	9	11	20
25	8	7	6	5	4	5	9	14	16	16	17	17	19	19	16	17	17	16	15	14	11	10	10	10	12	19
26	11	10	7	6	6	7	8	11	15	18	18	18	19	20	20	21	20	19	19	17	16	15	14	10	11	20
27	13	12	11	11	10	10	11	14	15	17	18	19	19	20	22	22	22	21	15	12	11	12	12	11	15	21
28	11	10	10	8	7	7	8	10	13	14	17	18	16	18	19	20	19	17	13	12	12	11	11	11	13	20
29	10	10	9	8	7	7	9	12	13	14	17	17	19	21	20	17	17	18	18	16	13	10	9	7	13	21
30	6	5	5	4	4	4	7	12	17	21	22	22	24	23	24	24	24	22	20	17	14	12	10	10	15	24
31	11	11	11	11	11	11	11	11	11	11	14	18	18	18	18	17	16	16	16	14	12	10	9	8	13	18

AV	6	6	5	5	4	4	6	8	11	12	14	14	15	15	16	16	15	14	13	11	9	8	7	6	10	24
PK	14	12	12	12	11	11	11	16	17	21	22	22	24	23	24	24	24	22	21	18	16	15	14	15	15	24
MIN	-2	-2	-2	-3	-3	-3	-1	2	1	3	5	2	1	3	7	6	4	5	5	4	2	0	-1	-2		

MONTHLY MINIMUM = -3

TEMPERATURE @ 10M
DEGREE C

CB-TRACT
TRAILER AA23
MAY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	11	12	9	9	8	8	10	13	17	19	21	21	22	22	22	22	22	22	21	18	17	17	16	16	16	22
2	16	16	13	14	13	13	14	16	17	18	20	21	21	21	21	21	18	13	11	8	8	7	7	7	16	21
3	7	7	7	7	6	6	7	8	5	5	8	9	7	3	2	1	1	1	1	1	1	1	2	2	4	9
4	1	1	1	-1	-1	-1	1	2	6	8	11	12	13	13	14	15	16	14	13	10	8	7	6	5	7	16
5	3	3	3	3	3	4	6	9	14	18	19	17	18	17	17	18	18	16	13	11	9	9	6	4	11	19
6	4	4	5	4	2	2	3	7	11	13	13	13	15	16	16	15	14	12	11	9	6	3	2	2	8	16
7	2	1	-1	-2	-2	-2	-1	3	6	6	8	9	8	11	11	12	11	10	8	6	4	2	2	1	5	12
8	1	0	-1	-1	0	1	2	4	4	5	3	0	-1	2	6	6	1	4	3	3	1	1	1	0	2	6
9	-1	-1	-1	-1	-1	-1	0	1	4	5	6	8	9	12	10	12	12	12	9	7	4	4	3	2	5	12
10	1	1	2	2	1	2	4	8	12	13	13	15	15	15	15	16	16	16	15	12	11	10	9	9	10	16
11	10	11	11	11	9	6	3	1	1	2	7	8	9	7	7	11	11	9	6	4	2	2	1	1	6	11
12	2	2	3	3	2	2	2	4	8	11	13	13	13	13	12	8	6	3	3	2	1	-1	-1	-2	5	13
13	-1	-2	-2	-2	-2	-2	-1	3	4	6	9	11	11	13	12	13	13	13	12	9	7	5	4	4	6	13
14	4	3	4	4	5	5	9	13	16	18	18	19	21	21	22	21	21	21	19	16	13	13	14	13	22	17
15	12	13	13	11	10	10	12	14	16	16	17	17	16	12	16	17	14	12	11	8	7	6	4	4	12	17
16	3	3	3	3	3	4	4	4	6	8	9	12	9	8	12	11	9	5	5	4	4	4	3	3	6	12
17	3	3	3	3	3	2	1	2	3	4	5	7	6	7	7	8	8	8	7	5	5	5	4	4	5	8
18	5	5	4	4	4	4	4	6	11	9	12	14	15	14	17	18	16	16	14	12	9	8	8	8	10	18
19	8	8	8	7	7	7	9	13	13	13	12	6	8	7	9	6	6	4	2	1	2	2	2	2	7	13
20	11	10	9	9	9	9	10	11	11	13	12	6	8	7	9	11	12	11	10	9	8	7	7	7	7	12
21	1	1	1	1	1	2	10	4	6	7	9	7	7	9	10	11	12	11	10	9	8	8	8	8	9	13
22	7	6	6	6	6	6	6	8	9	10	11	13	15	14	13	12	12	11	10	9	8	7	7	7	10	16
23	6	6	6	6	6	6	6	7	8	9	9	11	12	12	13	15	16	15	14	12	10	9	8	7	10	13
24	6	6	7	7	7	8	8	12	14	15	16	15	18	16	14	15	16	14	13	12	12	11	11	9	11	17
25	9	8	8	7	7	8	12	14	15	16	14	15	18	16	14	15	16	14	13	12	11	11	11	11	12	18
26	9	9	8	7	7	8	9	13	17	18	16	5	18	20	21	19	18	18	17	15	14	13	12	12	13	21
27	11	10	10	9	9	10	11	13	14	15	15	18	18	17	18	21	22	19	14	11	11	9	9	9	13	22
28	9	8	8	7	7	7	8	9	12	13	15	18	12	17	18	20	18	15	11	10	9	9	8	8	12	20
29	8	8	8	7	7	7	8	11	13	14	16	17	18	18	17	16	15	16	17	15	13	11	11	9	12	18
30	8	8	7	6	6	6	8	12	16	18	21	22	21	21	23	24	21	21	19	16	14	13	12	12	15	24
31	12	12	12	12	11	10	10	8	8	9	14	18	14	14	16	15	14	14	13	13	11	9	9	9	12	18
AV	6	6	5	5	5	5	6	8	10	11	13	13	13	13	14	14	13	13	11	9	8	7	7	6	9	
PK	16	16	13	14	13	13	14	16	17	19	21	22	22	22	23	24	22	22	21	18	17	17	16	16		24
MIN	-1	-2	-2	-2	-2	-2	-1	1	1	2	3	0	-1	2	2	1	1	1	1	1	1	-1	-1	-2		

MONTHLY MINIMUM = -2

TEMPERATURE @ 30M
DEGREE C

CR-TRACT
TRAILER AA23
MAY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	12	13	11	11	10	9	11	13	16	18	20	20	21	22	22	22	22	22	21	20	18	17	17	17	17	22
2	17	16	14	14	13	13	14	15	16	17	18	19	19	19	19	17	17	13	12	10	8	17	7	7	17	19
3	7	7	7	7	6	7	7	7	5	5	7	8	6	3	2	1	1	1	1	1	1	7	7	2	7	8
4	2	2	1	-1	-1	-1	1	2	6	8	9	10	12	12	13	14	14	13	12	11	9	8	7	6	7	14
5	4	4	4	4	4	5	7	9	13	16	17	16	17	18	16	17	17	15	13	12	9	9	6	4	11	18
6	4	4	6	4	2	2	3	6	9	12	12	12	13	14	14	14	14	12	11	9	6	3	2	3	8	14
7	2	1	0	-1	-2	-1	0	3	4	6	7	8	7	9	9	10	9	9	8	7	6	3	2	2	5	10
8	2	1	1	0	1	2	3	4	4	4	3	-1	-1	2	4	4	1	3	3	3	1	1	1	0	2	4
9	-1	-1	-1	-1	-1	-1	0	1	3	4	5	7	8	10	9	11	11	11	9	7	6	4	4	3	4	11
10	1	2	3	3	3	3	4	8	11	12	12	14	14	14	14	14	14	15	14	12	12	11	11	11	10	15
11	1	1	11	11	9	6	3	1	1	2	6	7	8	7	7	9	9	9	6	4	2	2	2	2	6	11
12	3	3	4	4	3	3	3	4	7	9	12	12	12	12	12	7	4	3	3	3	1	1	0	-1	5	12
13	-1	-1	-1	-1	-1	-2	-1	2	3	4	8	9	9	11	11	12	13	13	11	9	8	6	5	5	6	13
14	6	6	6	6	6	6	8	12	15	17	17	18	19	19	20	20	20	19	18	16	14	14	15	14	14	20
15	13	14	13	12	11	11	12	13	14	15	16	16	14	12	14	16	14	11	11	8	7	6	5	4	12	16
16	3	3	3	3	4	4	4	4	5	7	8	10	8	7	9	9	8	4	4	4	4	4	3	3	5	10
17	3	3	3	3	3	1	1	2	3	4	4	6	5	6	6	8	7	7	7	5	5	4	4	4	4	8
18	4	4	4	4	4	4	4	5	10	8	11	13	13	13	15	16	16	16	14	13	12	9	9	9	10	16
19	9	249	9	8	8	8	10	12	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	249
20	12	11	10	9	9	10	11	10	9	12	11	6	8	7	8	7	6	4	2	1	3	2	2	2	7	12
21	2	2	1	4	6	7	7	4	4	(PF)	6	6	7	8	9	9	11	10	9	(PF)	8	8	7	7	7	11
22	7	7	6	6	6	6	6	8	8	7	9	11	12	11	13	12	12	11	10	9	8	8	8	8	9	13
23	6	6	5	5	5	6	7	7	8	9	11	11	14	13	15	14	14	14	14	13	11	10	8	7	10	15
24	9	8	8	8	8	9	11	14	16	14	14	15	15	13	15	16	14	12	13	13	12	12	11	11	11	16
25	9	8	8	8	8	8	9	12	14	16	14	14	16	14	13	13	9	13	13	12	12	12	12	11	12	19
26	6	7	7	8	8	8	9	12	15	17	16	4	17	18	19	18	18	17	17	15	14	13	12	12	13	19
27	11	10	9	8	8	9	9	12	13	14	(PF)	(PF)	(PF)	(PF)	19	19	20	19	13	11	9	9	9	9	12	20
28	9	9	9	8	8	7	8	9	11	13	14	16	12	9	12	17	17	15	10	9	9	9	8	9	11	17
29	9	9	8	8	8	7	7	3	12	13	15	13	14	8	8	9	13	8	9	11	13	12	10	7	10	15
30	7	2	7	7	7	7	7	11	16	18	19	19	19	19	22	23	20	20	18	16	15	13	13	13	14	23
31	12	12	13	12	11	6	7	8	8	9	13	16	14	14	15	14	14	14	13	13	11	8	6	8	11	16

AV	6	14	6	6	6	5	6	7	9	11	12	12	12	13	13	13	12	12	11	9	8	8	7	7	9	
PK	17	249	14	14	13	13	14	15	16	18	20	20	21	22	22	23	22	22	21	20	18	17	17	17	9	
MIN	-1	-1	-1	-1	-2	-2	-1	-1	1	2	3	-1	-1	2	2	1	1	1	1	1	1	1	0	-1	23	

MONTHLY MINIMUM = -2

TEMPERATURE @ 60M
DEGREE C

CR-TRACT
TRAILER AA23
MAY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	13	13	12	12	11	9	11	13	16	18	19	20	21	21	21	22	22	22	21	21	19	18	17	17	17	22
2	17	16	14	14	13	13	14	15	16	17	19	19	20	20	19	17	13	11	9	8	7	7	7	7	14	20
3	8	7	7	7	6	7	7	7	4	4	4	8	6	3	2	0	1	1	1	1	1	2	2	2	4	8
4	2	2	1	0	-1	0	1	3	6	8	9	12	13	13	14	14	14	13	12	9	9	8	7	6	7	14
5	4	4	4	5	4	6	8	9	13	17	18	16	17	18	16	18	17	15	13	11	9	9	6	4	11	18
6	4	4	6	6	3	2	3	6	10	12	12	13	14	14	14	14	14	12	10	9	6	3	2	2	8	14
7	2	1	-1	-1	-2	-2	0	3	5	6	7	8	7	9	9	9	9	9	8	7	6	3	2	1	4	9
8	1	1	1	1	1	2	3	4	4	4	3	-1	-1	3	4	4	1	3	3	3	1	1	1	0	2	4
9	-1	-1	-1	-1	-1	-1	-1	1	4	5	6	9	8	11	9	11	11	11	9	7	5	4	3	3	5	11
10	2	2	3	3	3	3	5	8	11	12	12	14	14	14	14	14	14	15	14	12	12	11	11	11	10	15
11	11	11	11	11	9	6	3	1	1	3	6	7	8	8	7	9	11	9	6	3	2	2	2	-2	6	11
12	3	3	4	4	3	3	3	4	8	11	12	12	12	12	12	7	5	3	2	1	1	1	0	-2	5	12
13	-1	-1	-1	-1	-1	-2	-1	2	3	6	9	10	9	11	12	13	13	12	11	9	8	7	6	6	6	13
14	6	6	6	6	6	7	9	12	15	17	17	18	19	19	20	20	20	19	18	16	14	14	15	14	14	20
15	13	14	13	12	11	11	12	13	14	15	16	16	15	12	15	16	13	11	11	8	7	6	5	4	12	16
16	3	3	3	4	4	4	4	4	5	7	8	10	8	7	9	9	8	4	4	4	4	4	3	3	5	10
17	3	3	3	3	2	1	1	2	3	4	4	6	5	6	6	8	7	7	7	5	4	4	4	4	4	8
18	4	4	4	4	4	4	4	5	10	8	12	13	14	13	15	16	16	16	14	13	12	10	9	9	10	16
19	9	9	9	9	9	9	11	13	9	12	12	6	7	6	8	7	6	4	2	1	2	2	2	2	7	12
20	12	11	9	2	9	10	11	10	9	12	12	6	7	8	9	9	11	10	9	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	13
21	2	1	1	2	9	2	11	4	5	7	6	6	7	8	9	9	11	10	9	(PF)	9	8	7	7	11	13
22	7	7	7	7	7	7	7	8	8	7	9	10	12	12	13	12	12	11	10	9	9	8	7	9	13	13
23	6	6	6	6	6	6	6	7	8	10	11	13	16	14	16	15	16	15	14	12	11	10	9	7	10	16
24	6	6	5	6	6	8	9	12	16	15	15	15	16	13	15	16	14	12	14	13	12	12	12	11	12	16
25	11	9	9	9	8	9	12	14	14	16	14	14	16	15	13	15	15	14	13	12	12	13	11	11	13	16
26	10	9	9	9	8	8	9	12	15	17	16	4	17	19	19	18	18	17	16	15	14	13	12	11	13	19
27	11	10	10	9	9	11	11	12	13	14	(PF)	(PF)	(PF)	(PF)	19	19	19	18	13	10	9	9	10	9	12	19
28	9	9	9	8	8	8	8	9	12	13	14	17	12	16	18	19	17	14	11	9	11	10	9	9	12	19
29	9	9	8	8	8	7	8	10	12	14	16	17	17	18	17	16	14	16	17	14	13	12	11	11	13	18
30	10	8	8	7	7	8	9	12	16	18	19	19	19	20	22	23	20	20	18	16	15	15	14	13	15	23
31	12	12	12	12	11	11	11	9	8	9	14	16	14	14	16	14	14	14	14	13	12	11	10	10	12	16

AV	7	6	6	6	6	6	7	8	9	11	12	12	13	13	13	13	13	12	11	9	9	8	7	7	9	
PK	17	16	14	14	13	13	14	15	16	18	19	20	21	21	22	23	22	22	21	21	19	18	17	17	17	23
MN	-1	-1	-1	-1	-2	-2	-1	1	1	3	3	-1	-1	3	2	0	1	1	1	1	1	1	0	-2		

MONTHLY MINIMUM = -2

TEMPERATURE @10M

C-B TRACT
MRI AD42

May, 1981

DATA NOT AVAILABLE AT REPORT TIME

C-B TRACT
MRI AD56
May, 1981

TEMPERATURE @10M

DATA NOT AVAILABLE AT REPORT TIME

DELTA TEMPERATURE 60-10M
DEGREE C*100

CB-TRACT
TRAILER AA23
MAY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	183	94	211	161	194	67	94	-44	-72	-89	-89	-78	-78	-89	-117	-94	-83	-72	0	161	217	56	100	100	31	217
2	11	-11	78	22	-17	-17	-56	-61	-39	-56	-83	-100	-89	-94	-89	-61	11	-50	-67	-39	-61	-50	-22	-22	-40	78
3	44	11	0	-17	28	17	0	-33	-56	-50	-61	-22	-28	-117	-17	-117	-6	11	28	6	17	39	33	0	-12	44
4	-6	33	50	28	-6	-6	33	67	-17	17	-72	11	17	33	-50	-39	-111	-72	-50	-56	50	128	139	122	10	139
5	100	67	106	172	139	122	167	50	-22	-61	-17	-44	-122	-106	-56	-67	-33	-44	-33	-39	-50	-33	-33	-44	5	172
6	-33	-17	6	0	-28	-17	33	-17	-39	-33	-50	-56	-78	-83	-67	-61	-44	-50	-44	-44	-44	-61	-61	-33	-40	33
7	-44	-56	28	67	0	44	100	-17	-39	-61	-56	-89	-44	-133	-117	-144	-117	-83	-33	33	144	78	22	-44	-23	144
8	-33	33	67	106	61	122	83	17	-61	-100	-94	-128	-61	61	-56	-78	-83	-89	-67	-50	-67	-50	-56	-56	-24	122
9	-67	-67	-61	-39	-33	-56	-61	-44	-33	-22	6	-6	-78	-72	-67	-89	-56	-61	-56	-83	33	-39	-39	100	-41	100
10	78	0	39	111	189	106	156	22	-106	-94	-94	-122	-83	-56	-72	-89	-61	-44	-22	67	117	83	89	67	12	189
11	6	-11	-22	-17	-22	-83	-94	-78	-22	67	-89	-106	-106	-39	-72	-72	-17	-67	-78	-106	-50	28	94	78	-37	94
12	94	100	106	67	78	89	111	-11	-6	-22	-78	-61	-89	-100	-67	-106	-72	-56	-78	-61	6	39	33	17	-3	111
13	0	83	39	44	61	28	33	-61	-78	0	-33	-56	-94	-133	-17	-28	-39	-72	-56	-39	72	106	83	117	-2	111
14	144	194	156	111	44	128	28	-56	-56	-89	-67	-117	-106	-106	-111	-83	-83	-72	-22	0	167	111	56	83	11	194
15	56	39	44	72	61	61	-33	-44	-56	-67	-72	-72	-67	-22	-61	-117	-67	-61	-44	-50	-44	-61	-61	-56	-30	72
16	-22	0	-17	6	11	0	-44	-39	-61	-100	-94	-161	-89	-83	-150	-122	-94	-72	-78	-56	-33	6	6	-6	-54	11
17	44	39	39	-6	-72	-83	-50	-50	-56	-61	-67	-56	-61	-72	-67	-67	-100	-67	-72	-72	-72	-72	-78	-67	-52	44
18	-61	-72	-67	-61	-61	-61	-72	-83	-72	-50	-33	-44	-39	-83	-89	-106	-44	-50	0	122	250	128	33	44	-24	250
19	56	67	33	122	167	167	61	-6	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	167
20	-28	-33	-17	6	6	17	33	-56	-83	-67	-61	-44	-44	-50	-56	-11	-56	-28	-61	-67	-11	0	-6	-22	-31	33
21	6	11	11	22	6	-28	33	-56	-61	(PF)	-72	-72	-78	-83	-78	-78	-78	-56	-39	(PF)	33	128	100	61	-17	128
22	33	89	78	44	0	17	-28	-94	-128	-178	-100	-94	-56	-6	-61	-61	-33	-22	-56	-22	-17	-17	-28	-67	-34	89
23	-28	-6	-6	0	-56	-72	-67	-61	-156	-72	-28	33	33	6	-22	-28	-6	-11	-33	-94	56	56	50	33	-20	56
24	-17	83	17	83	133	222	189	22	-72	-33	-56	-44	-50	-50	-56	-67	-17	6	56	106	22	67	78	61	28	222
25	0	150	117	78	56	83	78	6	-33	-72	-67	-39	-83	-22	-56	-22	-33	-39	-39	28	100	122	94	39	19	150
26	50	67	61	78	61	0	61	-44	-100	-106	-56	-150	-61	-89	-167	-94	-72	-50	-33	-28	-28	-22	-28	-32	78	78
27	-22	-33	-22	-6	6	17	-39	-61	-61	-83	(PF)	(PF)	(PF)	(PF)	-139	-122	-122	-78	-83	-83	-83	-61	0	6	-54	17
28	-6	44	44	56	-6	17	0	-6	0	-6	-61	-100	0	-22	-61	-67	-72	-61	-22	-33	83	50	22	33	-7	83
29	78	33	33	33	22	-17	11	-33	-56	6	11	6	-22	-33	-44	-56	-44	-22	-22	-44	44	28	22	122	2	122
30	133	44	111	61	89	106	106	6	-22	-72	-94	-194	-133	-106	-72	-133	-44	-44	-56	-50	89	133	128	144	5	144
31	78	50	-11	-17	-17	11	6	-22	-44	-17	-83	-128	6	22	-28	-28	-39	-33	6	33	56	94	61	39	0	94

AV	27	33	40	45	35	32	28	-29	-57	-54	-62	-74	-61	-60	-73	-77	-57	-50	-39	-20	32	34	28	27	-15
PK	183	194	211	172	194	222	189	67	0	67	11	33	33	61	-17	-11	11	11	56	161	250	133	139	144	250
MIN	-67	-72	-67	-61	-72	-83	-94	-94	-156	-178	-100	-194	-133	-133	-167	-144	-122	-89	-83	-106	-83	-72	-78	-67	

MONTHLY MINIMUM = -194

RELATIVE HUMIDITY @ 3M
PERCENT

CR-TRACT
TRAILER AA23
MAY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	(RF) 51	(RF) 52	(RF) 58	(RF) 59	(RF) 60	(RF) 61	(RF) 62	(RF) 62	(RF) 60	(RF) 60	(RF) 57	(RF) 54	(RF) 52	(RF) 50	45	45	45	45	45	47	49	48	48	50	()	50
2	(RF) 82	(RF) 79	(RF) 80	(RF) 80	(RF) 80	(RF) 81	(RF) 82	(RF) 82	(RF) 81	(RF) 81	(RF) 82	(RF) 79	(RF) 77	(RF) 81	84	84	84	(RF) 85	(RF) 84	(RF) 84	(RF) 85	(RF) 85	84	(RF) 84	()	85
3	(RF) 60	(RF) 61	(RF) 63	(RF) 62	(RF) 65	(RF) 63	(RF) 60	(RF) 63	(RF) 57	(RF) 57	(RF) 45	(RF) 46	(RF) 44	(RF) 44	(RF) 44	(RF) 44	(RF) 44	(RF) 44	(RF) 45	(RF) 50	(RF) 53	(RF) 56	(RF) 60	(RF) 59	()	60
4	(RF) 83	(RF) 80	(RF) 78	(RF) 79	(RF) 79	(RF) 79	(RF) 79	(RF) 79	(RF) 79	(RF) 79	(RF) 79	(RF) 79	(RF) 79	(RF) 79	(RF) 79	(RF) 79	(RF) 79	(RF) 79	(RF) 79	(RF) 79	(RF) 79	(RF) 79	(RF) 79	(RF) 79	()	81
5	(RF) 59	(RF) 51	(RF) 50	(RF) 55	(RF) 60	(RF) 59	(RF) 66	(RF) 63	(RF) 47	(RF) 46	(RF) 45	(RF) 45	(RF) 44	(RF) 44	(RF) 44	(RF) 44	(RF) 44	(RF) 44	(RF) 44	(RF) 44	(RF) 44	(RF) 44	(RF) 44	(RF) 44	()	83
6	(RF) 60	(RF) 65	(RF) 68	(RF) 69	(RF) 72	(RF) 71	(RF) 68	(RF) 68	(RF) 67	(RF) 66	(RF) 66	(RF) 66	(RF) 66	(RF) 66	(RF) 66	(RF) 66	(RF) 66	(RF) 66	(RF) 66	(RF) 66	(RF) 66	(RF) 66	(RF) 66	(RF) 66	()	66
7	(RF) 82	(RF) 84	(RF) 84	(RF) 84	(RF) 83	(RF) 82	(RF) 82	(RF) 80	(RF) 77	(RF) 77	(RF) 77	(RF) 77	(RF) 77	(RF) 77	(RF) 77	(RF) 77	(RF) 77	(RF) 77	(RF) 77	(RF) 77	(RF) 77	(RF) 77	(RF) 77	(RF) 77	()	82
8	(RF) 71	(RF) 71	(RF) 70	(RF) 68	(RF) 69	(RF) 70	(RF) 69	(RF) 69	(RF) 69	(RF) 69	(RF) 69	(RF) 69	(RF) 69	(RF) 69	(RF) 69	(RF) 69	(RF) 69	(RF) 69	(RF) 69	(RF) 69	(RF) 69	(RF) 69	(RF) 69	(RF) 69	()	84
9	(RF) 46	(RF) 46	(RF) 45	(RF) 45	(RF) 45	(RF) 45	(RF) 45	(RF) 45	(RF) 45	(RF) 45	(RF) 45	(RF) 45	(RF) 45	(RF) 45	(RF) 45	(RF) 45	(RF) 45	(RF) 45	(RF) 45	(RF) 45	(RF) 45	(RF) 45	(RF) 45	(RF) 45	()	71
10	(RF) 70	(RF) 70	(RF) 69	(RF) 62	(RF) 64	(RF) 64	(RF) 70	(RF) 65	(RF) 57	(RF) 50	(RF) 45	(RF) 43	(RF) 43	(RF) 43	(RF) 43	(RF) 43	(RF) 43	(RF) 43	(RF) 43	(RF) 43	(RF) 43	(RF) 43	(RF) 43	(RF) 43	()	83
11	(RF) 42	(RF) 42	(RF) 42	(RF) 42	(RF) 42	(RF) 42	(RF) 43	(RF) 45	(RF) 46	(RF) 46	(RF) 46	(RF) 46	(RF) 46	(RF) 46	(RF) 46	(RF) 46	(RF) 46	(RF) 46	(RF) 46	(RF) 46	(RF) 46	(RF) 46	(RF) 46	(RF) 46	()	82
12	(IM) 42	(IM) 42	(IM) 42	(IM) 42	(IM) 42	(IM) 42	(IM) 42	(IM) 42	(IM) 42	(IM) 42	(IM) 42	(IM) 42	(IM) 42	(IM) 42	(IM) 42	(IM) 42	(IM) 42	(IM) 42	(IM) 42	(IM) 42	(IM) 42	(IM) 42	(IM) 42	(IM) 42	()	47
13	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	()	78
14	(IM) 80	(IM) 80	(IM) 80	(IM) 80	(IM) 80	(IM) 80	(IM) 80	(IM) 80	(IM) 80	(IM) 80	(IM) 80	(IM) 80	(IM) 80	(IM) 80	(IM) 80	(IM) 80	(IM) 80	(IM) 80	(IM) 80	(IM) 80	(IM) 80	(IM) 80	(IM) 80	(IM) 80	()	75
15	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	()	78
16	(IM) 80	(IM) 80	(IM) 80	(IM) 80	(IM) 80	(IM) 80	(IM) 80	(IM) 80	(IM) 80	(IM) 80	(IM) 80	(IM) 80	(IM) 80	(IM) 80	(IM) 80	(IM) 80	(IM) 80	(IM) 80	(IM) 80	(IM) 80	(IM) 80	(IM) 80	(IM) 80	(IM) 80	()	75
17	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	(IM) 84	()	79
18	(IM) 65	(IM) 65	(IM) 65	(IM) 65	(IM) 65	(IM) 65	(IM) 65	(IM) 65	(IM) 65	(IM) 65	(IM) 65	(IM) 65	(IM) 65	(IM) 65	(IM) 65	(IM) 65	(IM) 65	(IM) 65	(IM) 65	(IM) 65	(IM) 65	(IM) 65	(IM) 65	(IM) 65	()	66
19	(IM) 50	(IM) 50	(IM) 50	(IM) 50	(IM) 50	(IM) 50	(IM) 50	(IM) 50	(IM) 50	(IM) 50	(IM) 50	(IM) 50	(IM) 50	(IM) 50	(IM) 50	(IM) 50	(IM) 50	(IM) 50	(IM) 50	(IM) 50	(IM) 50	(IM) 50	(IM) 50	(IM) 50	()	85
20	(IM) 65	(IM) 66	(IM) 68	(IM) 70	(IM) 71	(IM) 69	(IM) 67	(IM) 68	(IM) 67	(IM) 67	(IM) 67	(IM) 67	(IM) 67	(IM) 67	(IM) 67	(IM) 67	(IM) 67	(IM) 67	(IM) 67	(IM) 67	(IM) 67	(IM) 67	(IM) 67	(IM) 67	()	75
21	(IM) 75	(IM) 77	(IM) 77	(IM) 77	(IM) 77	(IM) 77	(IM) 77	(IM) 77	(IM) 77	(IM) 77	(IM) 77	(IM) 77	(IM) 77	(IM) 77	(IM) 77	(IM) 77	(IM) 77	(IM) 77	(IM) 77	(IM) 77	(IM) 77	(IM) 77	(IM) 77	(IM) 77	()	83
22	(IM) 66	(IM) 69	(IM) 71	(IM) 72	(IM) 73	(IM) 72	(IM) 72	(IM) 72	(IM) 72	(IM) 72	(IM) 72	(IM) 72	(IM) 72	(IM) 72	(IM) 72	(IM) 72	(IM) 72	(IM) 72	(IM) 72	(IM) 72	(IM) 72	(IM) 72	(IM) 72	(IM) 72	()	77
23	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	()	77
24	(IM) 69	(IM) 69	(IM) 69	(IM) 69	(IM) 69	(IM) 69	(IM) 69	(IM) 69	(IM) 69	(IM) 69	(IM) 69	(IM) 69	(IM) 69	(IM) 69	(IM) 69	(IM) 69	(IM) 69	(IM) 69	(IM) 69	(IM) 69	(IM) 69	(IM) 69	(IM) 69	(IM) 69	()	77
25	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	()	84
26	(IM) 64	(IM) 67	(IM) 70	(IM) 72	(IM) 74	(IM) 75	(IM) 69	(IM) 68	(IM) 66	(IM) 66	(IM) 66	(IM) 66	(IM) 66	(IM) 66	(IM) 66	(IM) 66	(IM) 66	(IM) 66	(IM) 66	(IM) 66	(IM) 66	(IM) 66	(IM) 66	(IM) 66	()	83
27	(IM) 79	(IM) 79	(IM) 81	(IM) 81	(IM) 81	(IM) 84	(IM) 84	(IM) 85	(IM) 85	(IM) 85	(IM) 85	(IM) 85	(IM) 85	(IM) 85	(IM) 85	(IM) 85	(IM) 85	(IM) 85	(IM) 85	(IM) 85	(IM) 85	(IM) 85	(IM) 85	(IM) 85	()	85
28	(IM) 81	(IM) 81	(IM) 82	(IM) 82	(IM) 82	(IM) 82	(IM) 82	(IM) 82	(IM) 82	(IM) 82	(IM) 82	(IM) 82	(IM) 82	(IM) 82	(IM) 82	(IM) 82	(IM) 82	(IM) 82	(IM) 82	(IM) 82	(IM) 82	(IM) 82	(IM) 82	(IM) 82	()	84
29	(IM) 80	(IM) 81	(IM) 82	(IM) 82	(IM) 82	(IM) 82	(IM) 82	(IM) 82	(IM) 82	(IM) 82	(IM) 82	(IM) 82	(IM) 82	(IM) 82	(IM) 82	(IM) 82	(IM) 82	(IM) 82	(IM) 82	(IM) 82	(IM) 82	(IM) 82	(IM) 82	(IM) 82	()	82
30	(IM) 66	(IM) 71	(IM) 68	(IM) 69	(IM) 74	(IM) 76	(IM) 77	(IM) 82	(IM) 83	(IM) 83	(IM) 83	(IM) 83	(IM) 83	(IM) 83	(IM) 83	(IM) 83	(IM) 83	(IM) 83	(IM) 83	(IM) 83	(IM) 83	(IM) 83	(IM) 83	(IM) 83	()	83
31	(IM) 69	(IM) 70	(IM) 71	(IM) 72	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	(IM) 73	()	86

MONTHLY MINIMUM = 42

SOLAR RADIATION
Langley

CH-TRACT
TRAILER A423
MAY 1941
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TL	PEAK
1	0	0	0	0	0	2	10	20	30	39	45	30	36	32	42	30	20	12	2	0	0	0	0	0	349	45
2	0	0	0	0	0	2	8	16	14	32	45	35	42	35	32	5	11	0	0	0	0	0	0	0	283	45
3	0	0	0	0	0	0	4	5	3	4	30	17	2	2	3	1	1	2	1	0	0	0	0	0	74	30
4	0	0	0	0	0	2	11	21	31	34	34	51	48	44	40	34	21	13	3	0	0	0	0	0	399	51
5	0	0	0	0	0	2	10	17	29	39	47	32	41	44	17	31	15	8	3	0	0	0	0	0	334	47
6	0	0	0	0	0	1	5	20	28	40	34	43	51	44	32	23	11	6	1	0	0	0	0	0	340	51
7	0	0	0	0	0	2	11	21	31	41	47	44	21	47	31	35	24	10	3	0	0	0	0	0	369	47
8	0	0	0	0	0	1	5	7	10	24	12	9	10	43	36	18	6	12	1	0	0	0	0	0	193	43
9	0	0	0	0	0	0	2	11	27	24	25	39	31	52	24	36	24	14	4	0	0	0	0	0	313	52
10	0	0	0	0	0	3	11	22	27	27	30	38	25	21	17	17	16	14	5	0	0	0	0	0	272	38
11	0	0	0	0	0	1	2	1	1	13	44	34	22	23	15	28	21	8	3	0	0	0	0	0	216	44
12	0	0	0	0	0	0	4	15	30	39	44	43	30	16	13	9	11	5	2	0	0	0	0	0	269	44
13	0	0	0	0	0	1	4	23	15	35	43	50	48	48	43	35	24	14	4	0	0	0	0	0	386	50
14	0	0	0	0	0	4	12	23	27	43	27	43	54	43	39	27	23	16	4	0	0	0	0	0	384	54
15	0	0	0	0	0	4	12	23	31	39	39	43	23	31	31	19	8	8	4	0	0	0	0	0	314	43
16	0	0	0	0	0	0	4	4	16	23	31	35	16	35	34	16	12	4	4	0	0	0	0	0	237	39
17	0	0	0	0	0	0	4	4	12	16	16	23	16	16	19	19	12	8	4	0	0	0	0	0	157	23
18	0	0	0	0	0	0	4	12	14	19	50	47	35	23	35	23	16	12	4	0	0	0	0	0	302	50
19	0	0	0	0	0	4	4	16	16	27	23	12	12	12	23	12	12	4	0	(PF)	(PF)	(PF)	(PF)	(PF)	27	16
20	0	0	0	0	0	4	8	12	12	27	23	12	12	12	23	12	12	4	0	(PF)	0	0	0	0	182	27
21	0	0	0	0	0	0	4	19	15	(PF)	16	14	19	31	23	23	19	8	4	(PF)	0	0	0	0	206	31
22	0	0	0	0	0	0	4	8	8	12	27	19	27	16	19	8	4	4	0	0	0	0	0	0	155	27
23	0	0	0	0	0	0	4	8	16	16	14	35	43	31	34	16	19	12	4	0	0	0	0	0	260	43
24	0	0	0	0	0	4	12	19	35	16	31	23	23	4	23	16	8	8	4	0	0	0	0	0	229	35
25	0	0	0	0	0	4	16	16	8	14	12	23	27	19	16	16	8	4	4	0	0	0	0	0	190	27
26	0	0	0	0	0	0	12	16	27	23	12	27	16	43	47	16	12	8	4	0	0	0	0	0	260	47
27	0	0	0	0	0	0	4	12	16	16	(PF)	16	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	50	16
28	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	0	()
29	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	0	()
30	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	0	()
31	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	0	()
TL	0	0	0	0	0	42	207	348	533	660	784	814	718	760	699	513	357	211	69	0	0	0	0	0	6760	54
PK	0	0	0	0	0	4	16	23	35	43	50	51	54	52	47	36	24	16	5	0	0	0	0	0	0	

BAROMETRIC PRESSURE
MILLIBARS

CB-TRACT
TRAILER AB23
MAY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	785	785	784	784	784	784	785	785	784	784	786	793	786	785	789	789	788	788	787	787	787	788	788	788	787	793
2	788	788	788	787	787	787	788	787	787	787	786	785	783	784	784	784	784	784	784	784	784	784	784	784	786	788
3	784	784	784	784	784	783	784	784	784	784	783	783	783	783	784	785	786	786	786	786	786	785	789	789	785	789
4	789	789	789	789	790	790	790	791	790	789	790	782	782	782	782	781	781	781	781	781	781	782	782	782	785	791
5	782	782	782	782	782	782	782	782	782	782	781	781	781	783	782	782	782	781	785	786	786	787	789	788	783	789
6	787	786	786	786	787	787	787	784	783	782	781	781	780	780	780	779	779	779	780	780	782	783	784	784	783	788
7	784	784	785	785	785	785	785	784	782	784	783	785	785	785	789	787	787	787	787	787	787	788	788	788	786	789
8	788	787	786	786	786	786	786	785	785	786	786	787	789	788	787	788	789	789	789	790	791	792	792	792	788	792
9	793	793	793	793	794	794	795	795	795	795	795	795	795	795	794	794	793	793	793	793	793	793	793	793	794	795
10	793	793	792	792	792	792	792	792	792	791	791	791	790	789	789	789	788	787	787	787	787	786	786	786	790	793
11	784	783	783	783	783	784	785	785	786	786	786	786	786	786	785	785	784	784	785	786	786	787	788	787	785	788
12	787	787	787	786	786	786	786	787	786	786	785	786	785	785	785	785	787	787	788	788	789	790	790	790	787	790
13	790	790	791	791	791	792	793	793	794	794	794	794	794	794	793	793	792	791	791	791	791	790	790	791	792	794
14	790	790	790	790	790	790	790	789	788	788	788	787	786	785	785	785	784	784	783	784	783	783	782	782	787	790
15	782	781	781	782	781	781	781	781	775	776	780	778	778	779	777	776	776	778	778	779	779	780	781	781	779	782
16	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	781
17	780	781	781	781	782	783	783	783	784	785	784	785	785	785	786	786	786	786	787	787	787	788	788	789	785	789
18	788	788	789	789	789	789	791	792	792	791	792	789	788	788	787	785	783	781	781	781	781	779	779	779	786	792
19	779	779	779	779	779	779	779	788	788	788	788	788	788	788	787	785	783	781	781	781	781	779	779	779	786	792
20	786	786	785	785	784	784	784	784	775	774	774	775	777	778	774	774	775	776	776	777	777	778	779	779	786	792
21	780	780	779	779	780	781	784	776	776	776	776	777	777	778	779	779	779	778	779	779	779	779	780	780	779	784
22	780	780	779	779	780	780	779	779	780	780	780	780	779	779	779	779	779	778	779	779	779	779	780	780	779	784
23	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	780
24	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
25	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
26	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
27	782	782	782	782	782	782	782	782	782	782	781	781	781	780	780	780	780	780	780	780	781	781	782	782	781	782
28	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	782
29	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
30	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
31	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()

AV	786	785	785	786	786	786	786	785	785	784	785	785	784	785	785	784	784	784	784	784	784	785	785	786	786	785
PK	793	793	793	794	794	795	795	795	795	795	795	795	795	795	794	794	793	793	793	793	793	793	793	793	793	795
MN	779	779	779	779	779	779	779	776	775	774	774	774	775	777	778	774	774	775	776	776	777	777	778	779	779	795

MONTHLY MINIMUM = 774

PRECIPITATION
CM*100

CB-TRACT
TRAILER AR20
MAY 1981
OCCIDENTAL OIL SHALE INC.

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TL	PEAK
1																										
2																										
3																										
4																										
5																										
6																										
7																										
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9																										
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27																										
28																										
29																										
30																										
31																										
TL	15	()	()	23	23	23	41	41	()	3	41	51	46	48	28	36	86	48	10	8	84	38	709
PK	13			13	13	8	3	8	18	23		3	18	38	28	48	25	15	69	33	10	5	66	38		69

PRECIPITATION
CM*100

CR-TRACT
TRAILER AR23
MAY 1981
OCCIDENTAL OIL SHALE INC.

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TL PEAK
1																									
2																									
3								3	13	13		13	43	46	25	25	13	5	3	43	18	5	8	3	()
4																									()
5																									76 43
6																									201 46
7			20	13																					()
8																									()
9																									()
10																									()
11								5	23	10															()
12																									()
13																									()
14																									()
15																									()
16								3																	8
17					5	8	5	3					10					5	5	8	10				18 10
18																									43 10
19																									()
20																									()
21	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()
22	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()
23																		20							()
24																									()
25																									()
26																									()
27																									()
28												13						28	8					3	3
29	(TR)	(TR)		3																					48 28
30																									3
31								8	18	3															()
TL	()	()	20	15	5	8	13	30	38	23	()	13	66	46	25	25	13	58	15	51	28	30	71	28	622
PK			20	13	5	8	8	18	23	13		13	43	46	25	25	13	28	8	43	18	25	63	15	63

EVAPORATION

C-B TRACT
TRAILER AB23

May, 1981

NOT OPERATIONAL

INVERSION HEIGHT
METERS

CB-TRACT
TRAILER AC20
MAY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	450	480	480	535	562	600	560	360	110	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	120	310	430	570	400	340	420	600
2	280	255	250	320	250	210	175	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	310	320	440	440	370	300	300	311	450
3	510	485	460	380	335	345	340	285	100	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	215	235	240	320	365	350	410	336	510
4	410	530	600	500	400	395	375	340	310	210	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	75	280	420	410	370	370	375	600
5	425	445	425	425	420	420	430	440	425	400	385	80	(NV)	(NV)	260	210	215	230	255	330	380	375	365	420	349	445
6	630	620	480	480	610	660	605	625	430	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	210	340	480	380	504	660
7	250	300	340	385	430	445	405	300	170	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	130	230	270	425	470	410	331	470
8	425	460	460	460	450	440	425	420	410	420	430	420	375	340	(NV)	(NV)	230	360	340	410	430	465	460	410	411	465
9	305	420	425	470	460	455	420	380	230	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	120	310	410	350	370	366	470
10	380	480	460	505	530	540	540	475	330	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	70	260	370	430	385	411	540
11	425	450	460	445	330	90	30	30	460	530	430	75	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	160	390	460	400	360	325	530
12	400	520	480	480	520	515	460	400	375	370	220	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	55	320	490	560	500	417	560
13	610	630	615	625	655	510	365	310	120	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	170	360	320	340	390	430	655
14	405	480	520	565	595	590	490	380	220	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	160	240	330	360	320	404	595
15	415	400	340	340	330	310	290	270	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	180	265	220	200	80	35	30	30	235	415
16	460	500	340	260	235	235	200	120	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	130	240	215	290	310	350	278	500
17	365	370	350	330	290	265	275	320	330	240	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	120	260	280	90	30	261	370
18	500	460	440	560	750	780	780	580	360	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	200	410	490	420	470	514	780
19	430	485	510	600	655	600	500	410	365	230	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	140	230	270	300	320	320	398	655
20	340	450	560	575	560	415	380	140	30	40	180	490	230	(NV)	(NV)	(NV)	(NV)	(NV)	480	700	620	420	380	415	390	700
21	450	505	535	520	550	525	400	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	240	325	365	380	()	550
22	345	450	490	475	435	410	390	290	220	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	45	205	320	365	330	305	347	490
23	415	470	480	420	340	290	265	220	130	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	130	300	420	480	490	346	490
24	270	340	410	445	455	435	395	340	260	120	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	115	210	310	410	445	450	338	455
25	410	500	505	500	500	500	495	445	365	230	30	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	130	235	270	300	370	510	560	381	560
26	380	530	580	580	575	530	460	370	245	75	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	120	190	205	195	205	275	345	580
27	290	210	295	385	340	340	260	295	240	70	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	225	300	260	280	400	279	400
28	590	730	590	415	405	430	445	370	235	90	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	125	300	380	390	560	600	520	422	730
29	360	535	465	405	415	420	380	260	125	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	320	365	260	185	180	360	440	445	353	535
30	400	530	660	620	640	710	620	420	350	325	210	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	140	300	380	375	320	330	431	710
31	360	315	280	455	430	355	405	390	340	335	210	(NV)	(NV)	(NV)	(NV)	(NV)	255	495	425	455	560	560	445	430	395	560

AV	409	452	461	466	466	444	405	344	272	246	()	()	()	()	()	()	()	()	217	249	332	380	374	373	370	
PK	630	730	660	625	750	780	780	625	460	530	430	490	375	340	260	320	365	495	480	700	620	570	600	560	780	

STABILITY CLASS @ 50M
0=STR 1=UNST

CR-TRACT
TRAILER AC20
MAY 1981
OCCIDENTAL OIL SHALE INC.

DAY	HOUR (LOCAL STANDARD TIME)																								PREV
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
11	0	0	0	0	0	0	1	1	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1
22	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
PV	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0

STABILITY CLASS @ 200M
0=STB 1=UNST

CR-TRACT
TRAILER AC20
MAY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	PREV
1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
2	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
7	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
11	0	0	0	0	0	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	1
12	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	1
13	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1
14	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1
15	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1
16	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1
17	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1
18	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1
19	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1
20	0	0	0	0	0	0	0	0	1	1	1	0	1	1	1	1	1	1	0	0	0	0	0	0	1
21	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1
22	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1
23	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1
24	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1
25	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1
26	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	1
27	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0
PV	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0

STABILITY CLASS USING DT/DZ
DT 60-104
WS 104

CR-TRACT
TRAILER AA23
MAY 1981
OCCIDENTAL OIL SHALE, INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE
1	F	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
2	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
3	F	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
4	F	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
5	F	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
6	F	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
7	F	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
8	F	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
9	F	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
10	F	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
11	F	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
12	F	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
13	F	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
14	F	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
15	F	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
16	F	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
17	F	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
18	F	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
19	F	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
20	F	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
21	F	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
22	F	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
23	F	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
24	F	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
25	F	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
26	F	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
27	F	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
28	F	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
29	F	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
30	F	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
31	F	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
AVE	F	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()

TOTAL OCCURRENCES: A= 16 B= 41 C= 38 D=268 E=223 F= 79 HOURS MISSING= 79

(09/15/81-801)

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

NITRIC OXIDE (NO)

C-B SHALE OIL PROJECT

PERIOD(5/01/81 TO 5/31/81)

TRAILER AB20

CONCENTRATION MAX UG/M*3	WIND DIRECTION												W	WNW	NW	NNW	CALM	TOTAL	
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW							
GT 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20. - 30. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10. - 20. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
LT 10. :	18	13	13	26	36	124	102	22	22	30	17	27	19	35	73	42	24	62	683
TOTAL :	18	13	13	26	36	124	102	22	22	30	17	27	19	35	73	42	24	62	683
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

NITRIC OXIDE (NO)

C-B SHALE OIL PROJECT

PERIOD(5/01/81 TO 5/31/81)

TRAILER AB23

WIND DIRECTION

CONCENTRATION MAX UG/M**3	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
GT 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20. - 30. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10. - 20. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LT 10. :	15	8	3	1	4	9	8	11	14	18	21	16	9	13	11	22	1	184
TOTAL :	15	8	3	1	4	9	8	11	14	18	21	16	9	13	11	22	1	184
MEAN CONC.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

OXIDES OF NITROGEN (NOX)

C-B SHALE OIL PROJECT

PERIOD(5/01/81 TO 5/31/81)

TRAILER AB20

WIND DIRECTION

CONCENTRATION	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
MAX	1	3	3	11	5	15	0	0	0	0	3	11	0	1	5	1	3	
UG/M**3																		

GT 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20. - 30. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10. - 20. :	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	3
LT 10. :	18	13	13	24	35	120	101	22	28	17	27	18	35	73	42	24	62	672
TOTAL :	18	13	13	25	35	121	101	22	28	17	27	19	35	73	42	24	62	675
MEAN CONC.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

OXIDES OF NITROGEN (NOX)

C-B SHALE OIL PROJECT

PERIOD(5/01/81 TO 5/31/81)

TRAILER AB23

WIND DIRECTION

CONCENTRATION MAX UG/M**3	WIND DIRECTION																		TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM		
GT 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20. - 30. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10. - 20. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
LT 10. :	15	8	3	1	4	9	8	11	14	18	21	16	9	13	11	22	1	184	
TOTAL :	15	8	3	1	4	9	8	11	14	18	21	16	9	13	11	22	1	184	
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

NITROGEN DIOXIDE (NO2)

C-B SHALE OIL PROJECT

PERIOD(5/01/81 TO 5/31/81)

TRAILER AB20

CONCENTRATION MAX UG/M**3	WIND DIRECTION										W				NW			CALM		TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	NW	CALM	TOTAL	
GT 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20. - 30. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10. - 20. :	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
LT 10. :	18	13	13	24	35	121	101	22	28	17	27	19	35	73	42	24	42	62	62	674
TOTAL :	18	13	13	25	35	121	101	22	28	17	27	19	35	73	42	24	42	62	62	675
MEAN CONC.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

C-B SHALE OIL PROJECT

NITROGEN DIOXIDE (NO2)

TRAILER AB23 PERIOD(5/01/81 TO 5/31/81)

CONCENTRATION MAX UG/M**3	WIND DIRECTION																TOTAL			
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL		
GT 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20. - 30. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10. - 20. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LT 10. :	15	8	3	1	4	9	8	11	14	18	21	16	9	13	11	22	1	184		
TOTAL :	15	8	3	1	4	9	8	11	14	18	21	16	9	13	11	22	1	184		
MEAN CONC.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

OZONE (03)

C-8 SHALE OIL PROJECT

PERIOD(5/01/81 TO 5/31/81)

TRAILER AB20

WIND DIRECTION

CONCENTRATION	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
MAX	113	113	101	135	131	121	119	117	141	145	141	127	127	127	131	115	101	
UG/M*3																		

GT 260. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
240. - 260. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
220. - 240. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200. - 220. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180. - 200. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160. - 180. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140. - 160. :	0	0	0	0	0	0	0	0	1	2	1	0	0	0	0	0	0	4
120. - 140. :	0	0	0	1	4	1	0	0	3	1	2	2	5	5	3	0	0	27
100. - 120. :	5	5	1	3	7	18	15	17	15	6	12	8	11	30	12	7	1	173
80. - 100. :	5	2	3	5	10	29	18	4	6	7	8	3	15	18	12	8	20	173
60. - 80. :	5	3	6	7	3	27	32	1	3	1	3	5	1	10	10	3	14	134
40. - 60. :	2	1	3	7	7	23	20	1	1	1	0	0	2	6	1	4	15	94
20. - 40. :	0	0	0	3	2	17	17	0	0	0	0	0	1	2	0	0	2	44
LT 20. :	0	0	0	1	4	10	6	0	0	0	0	0	0	0	0	0	7	28
TOTAL :	17	11	13	27	37	125	108	23	29	18	26	18	35	71	38	22	59	677
MEAN CONC.	86	88	73	68	78	65	65	101	105	102	101	97	97	93	94	87	64	80

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

OZONE (03)

C-B SHALE OIL PROJECT

TRAILER AR23 PERIOD(5/01/81 TO 5/31/81)

CONCENTRATION MAX UG/M**3	WIND DIRECTION																TOTAL			
	N	NNE	NE	ENE	E	ESE	SE	SSE	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL			
141	143	139	131	139	141	145	137	147	154	148	123	129	119	129	121	143				
GT 260. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
240. - 260. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
220. - 240. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200. - 220. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180. - 200. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160. - 180. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140. - 160. :	2	1	0	0	0	1	0	1	2	3	0	0	0	0	0	0	2	13	0	0
120. - 140. :	4	0	2	1	2	1	0	6	10	4	2	1	0	4	2	8	51	0	0	0
100. - 120. :	6	6	2	3	3	5	13	8	15	22	4	7	3	7	6	8	134	0	0	0
80. - 100. :	12	10	4	6	6	5	13	20	39	53	13	9	14	12	9	2	248	0	0	0
60. - 80. :	5	3	2	3	6	13	15	14	15	16	1	5	10	10	13	3	151	0	0	0
40. - 60. :	0	2	1	0	0	0	1	1	2	6	5	4	3	8	6	0	40	0	0	0
20. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LT 20. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL :	29	22	11	13	17	25	43	47	62	83	104	26	30	41	36	23	637	0	0	0
MEAN CONC.	97	89	93	93	91	87	89	90	93	95	91	87	80	83	81	116	91	0	0	0

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

CARBON MONOXIDE (CO):

C-B SHALE OIL PROJECT

PERIOD(5/01/81 TO 5/31/81)

TRAILER AB20

WIND DIRECTION

	N	NNE	NE	ENE	E	ESE	SE	SSE	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
CONCENTRATION	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
MAX																	
UG/M**3																	
GT 4000. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3750. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3500. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3250. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3000. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2750. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2500. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2250. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2000. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1750. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1500. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1250. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1000. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LT 1000. :	18	13	13	27	39	131	108	23	31	19	27	19	35	74	44	23	64
TOTAL :	18	13	13	27	39	131	108	23	31	19	27	19	35	74	44	23	64
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CONC.																	

0 = NO OBSERVATIONS

C-B SHALE OIL PROJECT

PERIOD(5/01/81 TO 5/31/81)

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

SULFUR DIOXIDE (SO2)

C-8 SHALE OIL PROJECT

PERIOD(5/01/81 TO 5/31/81)

TRAILER AB20

WIND DIRECTION

CONCENTRATION MAX UG/M**3	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
GT 130. :	7	7	7	7	7	7	7	7	7	7	7	7	7	10	7	7	7	

120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20. - 30. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10. - 20. :	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1

LT 10. :	18	13	13	27	38	131	106	22	27	18	27	19	35	72	42	23	50	681
----------	----	----	----	----	----	-----	-----	----	----	----	----	----	----	----	----	----	----	-----

TOTAL :	18	13	13	27	38	131	106	22	27	18	27	19	35	73	42	23	50	682
---------	----	----	----	----	----	-----	-----	----	----	----	----	----	----	----	----	----	----	-----

MEAN
CONC.

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

SULFUR DIOXIDE (SO2)

C-B SHALE OIL PROJECT

PERIOD(5/01/81 TO 5/31/81)

TRAILER AB23

WIND DIRECTION

CONCENTRATION MAX UG/M**3	WIND DIRECTION																TOTAL			
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL		
GT 130. :	5	0	0	0	10	10	7	7	5	10	0	0	7	0	5	10	0			
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
20. - 30. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
10. - 20. :	0	0	0	1	2	1	0	0	0	2	0	0	0	0	0	1	0			
LT 10. :	10	13	7	8	11	16	35	38	41	48	76	10	19	15	27	12	14	400		
TOTAL :	10	13	7	9	13	17	35	38	41	50	76	10	19	15	27	13	14	407		
MEAN CONC.	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0		

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

HYDROGEN SULFIDE (H2S)

C-B SHALE OIL PROJECT

TRAILER AB23 PERIOD(5/01/81 TO 5/31/81)

CONCENTRATION MAX UG/M**3	WIND DIRECTION																TOTAL		
	N	NNE	NE	ENE	E	ESE	SE	SSE	WIND SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
GT 130. :	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20. - 30. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10. - 20. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LT 10. :	27	22	11	12	18	25	42	46	46	53	70	92	28	28	29	41	35	17	596
TOTAL :	27	22	11	12	18	25	42	46	46	53	70	92	28	28	29	41	35	17	596
MEAN CONC.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

0 = NO OBSERVATIONS

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

C-B SHALE OIL PROJECT

10 METER LEVEL

STATION AB20 PERIOD(5/01/81 TO 5/31/81)

WIND DIRECTION

WIND SPEED MAX METERS/SEC	WIND DIRECTION												NNW	NW	WNW	W	WSW	SW	SSW	S	SSE	SE	ESE	E	ENE	NE	NNE	N	VAR	TOTAL	
GT 11. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8. - 11. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
5. - 8. :	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	
3. - 5. :	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	132	
1. - 3. :	10	6	8	6	18	87	58	10	8	12	10	27	41	23	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	349
LT 1. :	5	7	5	21	15	29	26	2	3	5	5	1	8	13	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	153
TOTAL :	18	13	13	27	39	131	109	23	32	19	27	19	35	74	44	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	647
PERCENT	3.	2.	2.	4.	6.	20.	17.	4.	5.	3.	4.	3.	5.	11.	7.	4.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	100.

0 = NO OBSERVATIONS

C-B SHALE OIL PROJECT

STATION AA23 PERIOD(5/01/81 TO 5/31/81)

WIND SPEED MAX METERS/SEC	WIND DIRECTION													NNW	NW	VAR	TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W				
GT 11. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8. - 11. :	0	0	0	0	0	0	0	0	3	3	7	0	0	0	0	0	13
5. - 8. :	1	0	0	0	0	1	3	15	17	20	1	1	1	2	4	3	68
3. - 5. :	4	7	1	0	1	3	8	16	19	32	15	5	5	8	15	10	145
1. - 3. :	17	9	4	7	12	17	22	26	25	30	33	12	11	17	20	23	285
LT 1. :	7	8	6	8	5	8	19	13	8	17	20	5	12	6	6	6	154
TOTAL :	29	24	11	15	18	26	45	50	67	86	112	33	29	33	45	42	665
PERCENT	4.	4.	2.	2.	3.	4.	7.	8.	10.	13.	17.	5.	4.	5.	7.	6.	100.

0 = NO OBSERVATIONS

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

C-B SHALE OIL PROJECT

30 METER LEVEL

STATION AA23 PERIOD(5/01/81 TO 5/**/81)

WIND SPEED MAX METERS/SEC	WIND DIRECTION																	TOTAL
	N	NNE	NE	ESE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	
6	4	2	2	5	8	4	12	12	12	12	13	7	8	9	8	7	0	0

GT 11. :	0	0	0	0	0	0	1	1	4	5	0	0	0	0	0	0	11
8. - 11. :	0	0	0	0	1	0	8	12	13	11	0	1	2	2	0	0	50
5. - 8. :	4	0	0	1	0	0	5	14	21	22	4	4	6	6	4	0	91
3. - 5. :	3	7	0	3	3	19	16	13	19	17	11	7	8	24	7	0	157
1. - 3. :	18	8	11	8	19	20	31	20	14	13	8	14	13	14	26	0	248
LF 1. :	5	5	4	4	7	7	11	5	6	8	6	8	7	10	4	0	106
TOTAL :	30	20	15	12	30	31	61	55	60	78	29	34	36	56	41	0	663
PERCENT :	50	33	25	20	45	47	93	86	90	118	44	56	55	89	66	0	100

0 = NO OBSERVATIONS

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

60 METER LEVEL

C-B SHALE OIL PROJECT

STATION AA23 PERIOD(5/01/81 TO 5/31/81)

WIND DIRECTION

WIND SPEED MAX METERS/SEC	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	TOTAL
GT 11. :	0	0	0	0	0	0	0	1	5	5	10	0	0	0	0	0	0	21
8. - 11. :	1	0	0	0	0	0	1	2	15	19	19	0	0	2	5	2	0	66
5. - 8. :	3	3	1	0	0	1	0	8	10	17	26	18	4	7	9	6	0	113
3. - 5. :	7	7	3	2	0	5	16	12	18	15	16	12	8	11	21	15	0	168
1. - 3. :	13	18	7	11	12	14	30	21	17	12	12	5	9	10	16	24	0	231
LT 1. :	4	1	3	2	4	4	7	4	4	5	6	9	5	4	8	2	0	72
TOTAL :	28	29	14	15	16	24	54	48	69	73	89	44	26	34	59	49	0	671
PERCENT	4.	4.	2.	2.	2.	4.	8.	7.	10.	11.	13.	7.	4.	5.	9.	7.	0.	100.

0 = NO OBSERVATIONS

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

10 METER LEVEL

C-B SHALE OIL PROJECT

STATION AD42 PERIOD : 5/1/81 - 5/31/81

DATA NOT AVAILABLE AT REPORT TIME

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

10 METER LEVEL

C-B SHALE OIL PROJECT

STATION AD56 PERIOD 5/1/81 - 5/31/81

DATA NOT AVAILABLE AT REPORT TIME

FIVE MAXIMUM SLIDING AVERAGE
UG/M**3

C-H TRACT
SITE AR20
MAY 1981
OCCIDENTAL OIL SHALE, INC.

COMPONENT	AVG. TIME	RANK	DAY	HOUR (REG)	VALUE
SO2	3 HR	1	22	10	8.7
		2	3	15	7.9
		3	3	18	7.9
		4	3	21	7.9
		5	3	24	7.9
SO2	24 HR	1	21	13	8.0
		2	6	1	7.9
		3	7	1	7.9
		4	8	1	7.9
		5	9	1	7.9
CO	1 HR	1	15	19	0.0
		2	15	21	0.0
		3	15	22	0.0
		4	20	22	0.0
		5	15	18	0.0
CO	8 HR	1	15	16	0.0
		2	4	16	0.0
		3	20	16	0.0
		4	13	16	0.0
		5	22	4	0.0
O3	1 HR	1	6	16	145.2
		2	6	17	143.2
		3	6	14	141.3
		4	6	15	141.3
		5	6	11	137.3
PART	24 HR	1	9	1	22.8
		2	30	1	14.8
		3	24	1	13.9
		4	15	1	11.1
		5	21	1	10.8

FIVE MAXIMUM SLIDING AVERAGE
UG/4883

C-B TRACT
SITE AR23
MAY 1981
OCCIDENTAL OIL SHALE, INC.

COMPONENT	AVG. TIME	RANK	DAY	HOUR (BEG)	VALUE
SO2	3 HR	1	3	6	10.5
		2	3	22	10.5
		3	3	1	8.7
		4	3	18	7.9
		5	2	21	5.2
SO2	24 HR	1	3	1	6.2
		2	2	1	0.9
		3	2	1	0.0
		4	2	1	0.0
		5	2	1	0.0
CO	1 HR	1	20	12	600.0
		2	20	13	600.0
		3	20	11	600.0
		4	20	10	600.0
		5	20	9	500.0
CO	8 HR	1	20	9	500.0
		2	20	17	300.0
		3	15	11	300.0
		4	21	5	300.0
		5	15	19	200.0
O3	1 HR	1	5	12	155.0
		2	6	17	151.1
		3	6	16	149.1
		4	5	11	147.1
		5	5	10	145.2
PART	24 HR	1	15	1	29.3
		2	18	1	28.9
		3	12	1	24.1
		4	30	1	20.6
		5	3	1	9.5

FIVE MAXIMUM SLIDING AVERAGE
UG/MSS3

C-B TRACT
SITE AD56
MAY 1981
OCCIDENTAL OIL SHALE, INC.

COMPONENT	AVG. TIME	RANK	DAY	HOUR (REG)	VALUE
PART	24 HR				
		1	15	1	16.4
		2	30	1	13.3
		3	21	1	12.0
		4	27	1	11.4
		5	24	1	8.8

SOURCE OF DATA REPORTED
PERCENT

C-b TRACT
TRAILER AB20
MAY 1981
OCCIDENTAL OIL SHALE, INC.

	NO	NO _x	NO ₂	O ₃	CO	SO ₂
MULTIPOINT RECORDER *						
DATA ACQUISITION SYSTEM	93	93	93	92	95	97
OTHER SYSTEMS						
EFFICIENCY	93	93	93	92	95	97

MULTIPOINT
RECORDER *

DATA ACQUISITION
SYSTEM

OTHER SYSTEMS

EFFICIENCY

* Serves as Back-up to Data Acquisition System

SOURCE OF DATA REPORTED
PERCENT

C-b TRACT
TRAILER AB20
MAY 1981
OCCIDENTAL OIL SHALE, INC.

WS	WD	SIGMA HWD 10m	TEMP	INVERS. HT	STB 50m	STB 200m	PART	PRECIP.
----	----	------------------	------	---------------	------------	-------------	------	---------

MULTIPOINT
RECORDER *

DATA ACQUISITION
SYSTEM

96	96	92	84					
----	----	----	----	--	--	--	--	--

OTHER SYSTEMS

				100	100	100	90	100
--	--	--	--	-----	-----	-----	----	-----

EFFICIENCY

96	96	92	84	100	100	100	90	100
----	----	----	----	-----	-----	-----	----	-----

* Serves as Back-up to Data Acquisition System

SOURCE OF DATA REPORTED
PERCENT

C-b TRACT
TRAILER AB23
MAY 1981
OCCIDENTAL OIL SHALE, INC.

NO	NO _x	NO ₂	O ₃	SO ₂	H ₂ S	CO	BAR PRESS.	SOLAR RAD.
----	-----------------	-----------------	----------------	-----------------	------------------	----	---------------	---------------

MULTIPOINT
RECORDER *

DATA ACQUISITION
SYSTEM

25	25	25	91	59	82	72	68	83
----	----	----	----	----	----	----	----	----

OTHER SYSTEMS

EFFICIENCY

25	25	25	91	59	82	72	68	83
----	----	----	----	----	----	----	----	----

* Serves as Back-up to Data Acquisition System

SOURCE OF DATA REPORTED
PERCENT

C-b TRACT
TRAILER AB23
MAY 1981
OCCIDENTAL OIL SHALE, INC.

	TMP 10m	TMP 30m	TMP 60m	DT 60-10m	RH	PART	PREC
--	------------	------------	------------	--------------	----	------	------

MULTIPOINT
RECORDER *

DATA ACQUISITION
SYSTEM

97	97	97	97				
----	----	----	----	--	--	--	--

OTHER SYSTEMS

				85	90	91	
--	--	--	--	----	----	----	--

EFFICIENCY

97	97	97	97	85	90	91	
----	----	----	----	----	----	----	--

* Serves as Back-up to Data Acquisition System

SOURCE OF DATA REPORTED
PERCENT

C-bTRACT
TRAILER AB23
MAY 1981
OCCIDENTAL OIL SHALE, INC.

SIGMA HWD 10m	SIGMA HWD 30m	SIGMA HWD 60m	WS 10m	WS 30m	WS 60m	WD 10m	WD 30m	WD 60m
------------------	------------------	------------------	-----------	-----------	-----------	-----------	-----------	-----------

MULTIPOINT
RECORDER *

DATA ACQUISITION
SYSTEM

91	91	91	91	91	91	91	91	91
----	----	----	----	----	----	----	----	----

OTHER SYSTEMS

91	91	91	91	91	91	91	91	91
----	----	----	----	----	----	----	----	----

EFFICIENCY

*Serves as Back-up to Data Acquisition System

SOURCE OF DATA REPORTED
PERCENT

C-b TRACT
SITE AD42
MAY 1981
OCCIDENTAL OIL SHALE, INC.

WS
10m

WD
10m

TMP
10m

OTHER SYSTEMS

EFFICIENCY

SOURCE OF DATA REPORTED
PERCENT

C-b TRACT
SITE AD56
MAY 1981
OCCIDENTAL OIL SHALE, INC.

WS 10m	WD 10m	TMP 10m	PART
			100
			100

OTHER SYSTEMS

EFFICIENCY

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AIR MONITORING REPORT
FOR
PROTOTYPE OIL SHALE LEASE TRACT C-B

JUNE 1981

SUBMITTED
OCTOBER 20, 1981



PREPARED BY :
OCCIDENTAL OIL SHALE, INC. OPERATOR
P.O. BOX 2687
GRAND JUNCTION, COLORADO 81501

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NITRIC OXIDE
(UG/M3)

CB-TRACT
TRAILER AR20
JUNE 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CH-TRACT
TRAILER AR23
JUNF 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)[illegible]

019/13/61-0021

OXIDES OF NITROGEN
(UG/M3)

CB-TRACT
TRAILFR AR20
JUNE 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

OXIDES OF NITROGEN
(UG/M3)

CR-TRAC
TRAILER AR23
JUNE 1991
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)[illegible]

NITROGEN DIOXIDE
(UG/M3)

CB-TRACT
TRAILER AR20
JUNE 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CR-TRACT
TRAILER A923
JUNE 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)[illegible]

OZONE
(UG/M3)

CB-TRACT
TRAILER AR20
JUNE 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	47	47	45	45	45	43	51	80	104	110	116	116	114	114	110	106	106	102	98	84	71	63	57	51	80	116
2	41	41	41	37	37	37	49	63	86	112	116	116	114	110	106	106	106	104	102	92	67	67	84	92	80	116
3	90	92	84	63	55	43	47	51	71	84	90	94	102	94	94	96	92	90	94	88	74	65	55	59	78	102
4	39	43	35	43	51	49	49	63	84	98	102	108	110	110	114	116	114	112	94	73	57	49	49	45	75	116
5	41	33	33	31	29	27	35	55	71	80	82	78	76	73	69	69	74	78	71	57	45	41	37	39	55	82
6	35	37	33	35	37	39	41	51	67	74	78	78	78	78	78	80	82	82	76	59	55	57	65	74	61	82
7	63	61	57	47	43	45	47	53	82	88	92	94	94	100	100	102	106	108	98	96	80	73	59	57	77	108
8	61	59	59	57	53	43	43	71	88	86	86	86	86	80	71	73	78	74	74	67	59	49	49	49	67	88
9	53	59	61	59	55	47	45	61	76	80	82	74	69	67	65	65	69	69	67	63	51	35	33	29	60	82
10	31	29	25	24	24	22	29	47	61	67	78	80	82	88	86	86	86	84	88	84	84	73	63	57	62	88
11	47	37	33	35	35	29	41	73	84	84	86	90	96	96	92	92	88	86	84	84	57	63	63	65	68	96
12	65	63	63	59	57	53	53	67	86	88	90	88	86	92	94	96	94	96	96	88	67	67	63	59	76	96
13	59	80	84	65	63	84	80	90	94	100	106	106	108	141	137	133	127	118	106	106	106	108	108	102	100	141
14	74	67	49	53	47	57	67	88	90	94	94	94	94	94	94	96	96	96	94	86	80	61	55	55	78	96
15	55	53	53	51	51	47	55	63	78	84	86	90	92	96	96	96	102	108	104	96	73	69	61	59	76	108
16	65	63	61	59	59	59	65	78	90	102	106	110	112	112	114	116	118	116	118	112	92	88	92	59	90	118
17	114	104	102	94	82	69	63	80	80	80	84	94	102	116	108	112	106	110	120	114	96	73	69	67	93	120
18	63	59	57	59	57	57	59	71	80	90	90	90	90	92	94	94	94	92	86	76	57	57	55	57	74	94
19	53	51	49	47	47	45	49	57	76	(CA)	73	69	71	78	84	78	78	84	86	80	65	53	47	49	64	86
20	49	49	51	49	51	53	53	63	74	74	74	78	80	78	84	84	94	96	84	80	65	53	51	53	68	96
21	61	59	59	57	55	51	53	59	71	88	92	90	94	96	98	96	88	80	80	80	73	57	51	49	72	98
22	43	43	39	39	35	33	43	53	65	69	71	74	74	76	78	78	78	80	76	63	53	49	51	51	59	80
23	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	86	96	102	108	104	104	104	106	104	102	80	76	65	57	55	90	108
24	51	59	57	47	41	41	45	65	76	84	94	98	82	80	76	78	78	76	74	63	43	37	35	31	63	98
25	33	31	31	29	33	35	27	41	53	63	74	82	92	98	98	100	100	100	100	82	65	61	57	61	65	100
26	61	61	65	84	88	84	92	98	100	106	108	112	114	114	116	116	114	114	110	108	76	94	90	74	96	116
27	76	65	55	51	59	55	55	76	90	108	108	114	118	116	112	114	112	112	106	78	73	84	94	90	88	118
28	82	73	57	57	49	55	61	74	76	94	106	104	96	90	106	108	102	92	92	82	80	86	63	57	81	108
29	41	47	49	51	41	29	43	69	98	102	104	110	112	102	104	102	104	102	96	92	74	69	59	57	77	112
30	51	47	55	55	43	41	49	63	78	86	96	86	90	90	92	92	90	74	63	51	41	45	45	45	65	96
AV	57	56	53	51	49	47	51	66	80	88	92	94	94	96	96	96	96	95	91	81	68	64	60	58	75	
PK	114	104	102	94	88	84	92	98	104	112	116	116	118	141	137	133	127	118	120	114	106	108	108	102		141

OZONE
(UG/M3)

CR-TRACT
TRAILER AB23
JUNE 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
2	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
3	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
4	69	74	74	67	65	63	57	78	94	108	114	116	118	120	118	127	122	118	82	82	78	73	71	76	86	127
5	80	88	86	76	76	67	59	76	82	86	86	84	80	78	74	74	76	82	82	82	78	73	71	76	86	88
6	73	71	65	73	73	67	61	67	80	82	82	82	84	84	84	86	88	86	86	80	78	74	76	80	78	88
7	73	74	74	74	73	69	69	84	94	96	92	90	88	84	84	86	108	110	102	106	98	86	76	88	91	110
8	85	84	82	82	84	84	90	94	96	92	88	88	86	82	74	78	80	78	78	78	74	73	74	80	83	96
9	53	53	47	49	49	49	53	57	65	69	74	80	82	82	88	88	86	69	67	65	59	53	53	53	73	90
10	67	67	67	71	69	67	69	76	82	88	86	88	96	96	96	94	90	86	84	78	80	86	69	73	71	69
11	86	86	80	82	90	78	84	86	88	88	90	90	88	90	92	96	94	96	94	92	88	90	88	88	82	96
12	112	94	74	90	84	88	86	90	92	96	102	100	114	133	131	129	127	120	92	106	100	104	106	102	103	133
13	96	88	84	82	80	74	74	80	86	86	86	86	90	94	94	96	86	98	94	92	90	80	78	80	87	98
14	71	76	74	71	73	67	71	80	82	82	84	88	92	92	94	94	98	100	96	90	92	92	90	92	85	100
15	82	84	84	90	92	80	65	82	92	106	104	106	108	110	114	114	116	112	116	112	110	108	114	114	101	116
16	114	110	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	102	100	104	104	106	88	92	90	76	92	92	98	114
17	88	86	86	82	76	84	67	80	88	90	90	88	90	88	90	94	94	96	96	90	80	84	82	74	86	96
18	76	76	76	73	76	73	63	69	74	76	76	73	76	80	90	86	88	88	88	82	82	74	74	76	78	90
19	80	80	73	78	65	65	67	71	78	78	80	80	84	84	90	92	94	102	92	90	82	86	86	88	82	102
20	80	80	84	82	78	71	71	71	84	90	94	98	96	98	100	100	96	88	82	67	53	80	67	71	83	100
21	65	65	65	65	57	47	61	71	74	74	76	80	80	82	82	82	80	86	86	84	78	80	84	76	74	86
22	82	84	86	84	84	82	78	73	90	94	98	106	110	110	108	108	104	98	100	98	94	90	92	86	93	110
23	84	76	69	69	76	74	57	73	82	88	94	100	104	104	98	96	96	94	88	76	88	84	86	82	85	104
24	71	78	71	69	67	67	67	74	84	86	94	102	106	106	108	108	106	108	106	100	94	94	96	96	90	108
25	92	92	90	92	100	102	100	102	106	106	106	108	112	114	116	114	110	112	106	100	61	69	76	76	98	116
26	76	76	74	76	76	73	73	78	96	106	110	114	116	114	104	108	106	106	106	84	74	88	86	86	92	116
27	82	73	73	67	73	67	71	65	76	96	98	102	94	84	106	106	102	92	94	88	88	90	82	78	85	106
28	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
29	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
30	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
AV	81	80	76	76	76	72	70	77	86	90	92	93	95	96	97	98	97	97	93	90	84	83	83	84	86	
PK	114	110	90	92	100	102	100	102	106	108	114	116	118	133	131	129	127	120	116	114	110	108	114	114	133	

CARRON MONOXIDE
(UG/M3)

CB-TRACT
TRAILER AB20
JUNE 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CARBON MONOXIDE
(UG/M3)

CR-TRACT
TRAILER AR23
JUNE 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
2	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
3	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
13	400	300	300	300	200	200	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
14	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
15	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
16	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
17	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
28	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
29	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
30	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
AV	0	0	0	0	0	0	0	0	0	0	0	100	100	0	100	100	100	0	0	0	0	0	0	0	0	0
PK	400	400	300	300	200	200	100	100	200	200	300	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400

SULFUR DIOXIDE
(UG/M3)

CR-TRACT
TRAILER AB20
JUNE 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	8	8	8	8	8	8	8	5	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
2	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
3	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
4	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
5	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
6	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
9	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
10	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
11	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
12	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
13	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
14	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
15	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
16	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
17	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
18	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
19	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
20	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
21	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
22	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
23	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	()	()
24	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	()	()
25	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	()	()
26	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	()	()
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AV	7	7	7	7	7	7	7	7	7	7	7	7	6	6	6	6	6	6	6	6	7	6	6	6	6	10
PK	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	10	8	8	8	8	8

SULFUR DIOXIDE
(UG/M3)

CR-TRACT
TRAILER AB23
JUNE 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
2	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
3	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	()	()
17	0	0	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	1	3
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	3	0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	8
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3
24	3	3	3	3	3	3	3	3	3	(OE)	(OE)	3	3	3	3	3	3	3	3	3	3	3	3	3	1	3
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
28	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
29	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
30	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
AV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
PK	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	5	8	3	5	3	0	8

HYDROGEN SULFIDE
(UG/M3)

CB-TRACT
TRAILER AR23
JUNE 1981
OCCIDENTAL OIL SHALE INC.

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
2	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
3	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	18	0	0	1	1	1	1	1	1	1	1	1	1	1	18
9	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
14	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
15	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
16	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	()	()
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	3	3	3	3	3	3	3	3	3	3	3	3	1	1	1	1	1	1	1	1	1	3	3	3	2	4
19	3	3	3	3	3	3	3	3	3	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0	1	3
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	10	3	3	3	3	1	3	3	3	3	3	1	1	2	10
25	1	3	1	3	1	1	3	3	3	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
28	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
29	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
30	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
AV	0	1	0	1	0	0	1	1	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	1	18
PK	3	3	3	3	3	3	3	3	3	3	3	18	3	4	3	3	1	3	3	3	3	3	3	3	3	3

PARTICULATE DATA
UG/M3

CB-TRACT
JUNE 1981
OCCIDENTAL OIL SHALE, INC

DAY	AB20	STATION AB23	AD56
2	21.6	21.6	17.4
5	11.5	15.0	8.1
8	14.3	27.6	18.2
11	17.4	2.6	17.7
14	27.5	10.4	16.9
17	69.4	61.8	24.9
20	53.5	36.6	28.1
23	52.3	53.2	34.7
26	9300.0	7.0	8.7
29	9650.0	9650.0	9650.0
PK	69.4	61.8	34.7
AV	33.4	26.2	19.4
GM	27.5	18.1	17.6

WIND SPEED @10M
METERS/SEC

CR-TRACT
TRAILER AR20
JUNE 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	3	2	1	2	2	1	2	1	1	1	2	3	0	3	1	4	3	3	1	1	0	1	1	1	2	4
2	1	2	1	1	0	3	2	2	1	0	1	2	2	4	2	3	1	1	2	2	0	0	1	0	2	5
3	1	1	2	1	2	0	2	1	2	1	1	2	2	3	4	3	1	1	2	2	1	1	0	0	1	4
4	0	0	0	0	1	2	1	1	1	1	2	1	2	3	4	2	2	2	2	2	1	1	2	0	1	4
5	2	2	2	2	2	3	4	3	3	4	4	4	5	5	4	4	4	4	2	1	2	1	1	1	1	4
6	1	2	1	1	2	2	2	1	2	4	4	4	4	4	4	4	4	4	4	4	1	1	1	2	1	4
7	2	2	2	2	2	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4	1	1	1	2	1	4
8	1	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4
9	1	1	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4
10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4
11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4
12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4
13	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4
14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4
15	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4
16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4
17	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4
18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4
19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4
20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4
21	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4
22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4
23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4
24	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4
25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4
26	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4
27	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4
28	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4
29	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4
30	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4
AV	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	8
PK	4	4	4	4	4	4	4	4	4	5	5	6	6	7	7	7	8	8	9	9	10	10	11	11	11	2

111212

WIND SPEED @ 10M
METERS/SEC

CR-TRACT
TRAILER AA23
JUNE 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
2	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
3	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
4	1	1	1	1	1	1	1	0	1	1	1	2	1	2	2	4	2	2	1	2	2	0	0	1	1	1
5	1	1	0	1	1	1	0	0	2	2	1	2	1	2	2	1	1	2	2	2	1	0	0	1	0	1
6	1	1	0	1	1	2	1	0	4	5	4	4	1	4	4	5	5	5	4	3	0	3	2	2	2	2
7	1	3	2	2	2	2	4	4	6	6	6	7	6	7	8	7	6	6	6	4	4	2	2	2	2	4
8	4	5	5	4	4	4	4	5	5	6	6	7	7	6	7	6	6	6	6	4	4	2	2	3	4	5
9	5	6	6	5	4	1	1	2	3	3	3	4	4	5	5	5	5	4	4	3	0	2	2	1	1	3
10	2	2	0	1	2	0	0	1	1	1	4	4	4	5	5	5	5	5	4	4	3	3	3	3	3	6
11	2	2	2	2	2	4	3	6	6	6	8	7	7	8	10	8	8	7	7	6	5	4	4	4	5	8
12	5	4	1	1	4	4	4	4	2	1	2	2	4	10	10	8	9	9	4	4	5	3	3	3	3	6
13	4	3	1	1	4	0	2	4	3	3	3	3	3	4	3	3	4	4	4	5	4	4	4	4	4	10
14	2	1	1	1	2	0	4	4	3	2	2	2	2	4	3	2	2	2	4	5	4	2	1	1	2	4
15	1	1	1	1	0	1	1	1	1	2	3	3	3	5	6	6	7	7	7	4	3	2	2	2	2	4
16	0	2	2	0	0	0	0	1	1	5	4	4	4	5	6	6	6	6	6	5	5	2	2	0	0	8
17	9	2	8	6	2	1	2	2	1	2	5	6	6	6	6	7	7	7	6	5	3	2	2	0	0	9
18	1	2	2	1	0	1	0	0	1	0	4	4	4	4	3	4	3	4	4	5	0	2	2	1	1	4
19	1	1	1	1	1	1	1	1	1	3	4	6	7	5	6	5	5	6	5	3	2	2	2	1	0	7
20	1	1	0	1	0	1	1	0	4	4	4	5	4	4	6	5	6	6	6	5	3	2	2	1	0	6
21	2	1	1	1	1	0	0	1	1	3	4	6	7	7	6	7	6	7	6	5	3	1	1	1	0	7
22	(CM)	0	2	0	0	(CM)	0	0	1	2	4	2	2	2	2	4	4	4	2	1	2	1	0	0	1	4
23	1	3	2	1	1	2	2	1	4	6	5	1	2	6	3	2	2	4	5	3	1	1	1	0	1	6
24	2	1	0	1	1	1	0	1	1	1	1	1	3	3	4	4	4	4	4	4	2	2	0	0	2	4
25	0	0	0	0	2	0	1	2	2	1	1	1	2	3	0	2	3	2	4	4	2	2	0	0	2	4
26	4	4	4	3	3	3	4	3	4	4	5	4	3	4	4	3	4	4	0	6	2	4	6	3	4	6
27	4	3	2	2	3	2	3	2	2	4	4	4	4	4	4	5	4	4	5	4	1	5	3	4	3	5
28	3	2	0	2	2	2	1	1	0	2	2	3	4	2	0	1	3	3	5	2	3	4	1	1	2	5
29	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
30	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()

AV	2	2	2	2	2	1	1	2	2	3	4	4	4	5	4	5	5	5	4	4	3	2	2	2	2	3
PK	9	9	8	6	4	4	4	6	6	6	8	7	7	10	10	8	9	7	6	5	5	6	7	8	8	10

WIND SPEED ■ 30M
METERS/SEC

CB-TRACT
TRAILER AA23
JUNE 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
2	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
3	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
4	1	2	1	0	1	1	0	0	1	2	2	2	2	3	2	4	2	4	1	2	4	0	1	1	1	1
5	1	2	1	1	1	0	0	0	2	3	2	2	2	2	3	2	3	3	2	2	3	1	1	1	1	2
6	1	1	1	2	2	2	2	1	6	7	6	6	4	5	5	7	7	7	7	4	1	4	4	4	2	2
7	2	4	3	4	3	3	1	5	9	8	8	9	8	10	10	8	8	7	5	7	5	7	2	4	4	4
8	6	8	8	8	8	7	6	7	7	8	8	8	9	9	9	8	8	8	8	7	7	4	4	2	4	6
9	8	9	9	8	8	2	1	2	3	4	4	5	5	6	7	6	5	5	4	4	1	4	6	8	8	9
10	2	2	1	1	1	0	(CM)	2	2	2	6	7	8	10	9	8	9	6	6	6	4	2	3	2	5	10
11	3	3	3	3	2	1	0	1	1	1	2	2	5	7	7	7	7	8	6	8	7	4	9	9	4	9
12	8	8	7	7	6	1	4	8	8	8	11	9	9	11	11	11	9	10	9	8	6	6	6	8	8	11
13	7	4	1	2	5	5	5	4	3	2	2	2	6	13	13	12	13	9	6	7	5	4	5	4	6	13
14	2	2	2	0	2	1	2	4	4	4	4	4	4	5	2	3	5	5	4	3	2	(CM)	1	1	3	5
15	2	1	1	0	(CM)	2	2	2	1	2	4	4	3	3	4	8	3	4	4	4	3	0	1	0	2	4
16	0	3	1	0	(CM)	1	0	1	2	6	5	4	5	7	8	8	10	8	8	7	8	8	10	12	5	12
17	13	13	12	8	5	2	3	3	1	3	8	(PF)	4	8	9	9	8	8	8	7	7	3	3	3	2	13
18	1	2	1	1	(CM)	2	0	0	2	1	3	2	4	5	4	4	4	5	4	4	1	3	3	1	0	12
19	1	1	1	1	2	2	1	1	1	4	6	8	8	8	8	7	8	8	7	6	4	4	4	1	2	6
20	1	1	0	0	0	0	(CM)	1	1	6	6	6	5	5	8	9	8	8	8	7	4	3	3	1	1	5
21	2	1	0	1	1	1	1	1	2	4	6	8	10	9	8	9	8	8	7	4	4	2	2	1	4	10
22	1	1	3	1	0	(CM)	3	2	2	2	1	2	2	3	2	5	4	3	2	7	4	1	1	1	1	2
23	1	4	1	0	1	1	3	(CM)	7	8	7	5	3	8	4	6	6	6	5	4	2	2	1	1	1	4
24	2	1	1	1	1	1	(CM)	1	2	2	1	2	4	4	6	6	6	6	5	4	1	0	1	1	1	3
25	0	0	0	(CM)	3	0	1	3	2	2	2	1	2	4	0	2	4	3	5	4	5	2	1	1	5	5
26	5	7	6	4	4	4	6	4	5	5	6	6	4	4	4	4	4	0	8	3	2	7	8	5	8	8
27	6	4	3	4	4	3	3	2	3	5	6	4	4	6	6	7	6	7	5	1	4	4	4	6	5	8
28	5	4	1	2	3	3	2	1	0	3	3	4	5	4	0	1	4	4	8	3	5	6	1	3	3	8
29	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
30	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
AV	3	4	3	3	3	2	2	2	3	4	5	5	5	6	6	6	6	6	6	4	3	4	3	3	4	4
PK	13	13	12	8	8	7	6	8	9	8	11	9	10	13	13	12	13	10	9	8	8	8	10	12	4	13

WIND SPEED @ 60M
METERS/SEC

CB-TRACT
TRAILER AA23
JUNE 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
2	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
3	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
4	1	3	2	0	1	1	1	1	2	2	2	3	2	3	3	5	3	5	1	4	4	1	1	1	2	()
5	2	2	2	0	1	1	1	0	2	3	2	2	2	3	3	2	3	3	3	2	2	2	1	1	1	2
6	1	1	1	2	2	1	2	0	6	7	6	7	5	6	6	7	7	8	8	5	1	5	4	4	3	5
7	3	5	4	5	3	3	2	6	10	9	9	9	9	10	11	11	9	8	6	8	6	5	3	5	7	11
8	8	10	10	10	9	8	7	8	8	8	4	5	6	9	9	7	8	9	9	8	8	6	8	10	9	10
9	10	12	11	10	9	3	1	3	4	4	4	9	9	7	8	7	6	6	4	4	2	2	3	2	6	12
10	2	4	3	2	1	1	1	2	2	2	3	3	5	8	7	9	10	7	7	6	4	4	4	4	5	11
11	3	4	3	2	2	2	(CM)	1	1	1	12	10	10	12	12	11	10	8	10	10	9	9	11	11	5	11
12	10	10	9	10	8	3	6	8	8	9	12	12	7	14	14	13	14	10	7	9	8	8	8	6	9	12
13	8	6	3	3	6	1	5	4	3	2	5	4	4	6	2	4	5	6	7	7	6	4	4	4	7	14
14	3	2	3	2	2	1	3	4	4	4	4	4	4	3	4	3	4	4	5	3	2	1	1	1	3	6
15	2	2	1	0	0	2	3	2	1	2	4	4	4	7	9	9	10	11	5	4	4	0	0	0	0	5
16	0	2	2	1	1	0	(CM)	1	2	7	5	4	5	7	9	9	10	4	9	8	10	10	12	14	6	14
17	16	16	14	11	7	3	4	3	2	4	8	9	(PF)	9	10	10	9	9	8	8	6	3	4	1	7	16
18	1	2	0	1	0	0	1	0	2	1	3	2	5	6	4	5	5	5	4	1	1	3	4	1	1	6
19	2	0	0	1	1	2	1	1	1	4	6	9	10	7	8	8	8	9	4	7	6	5	1	1	5	10
20	1	2	1	1	0	0	2	1	5	7	6	7	6	6	8	8	8	9	7	6	5	4	3	2	4	9
21	2	2	0	3	0	2	1	2	2	4	6	9	10	10	9	10	5	4	8	8	6	3	3	3	5	10
22	2	2	3	3	0	1	2	2	2	3	1	2	3	3	2	6	5	4	2	2	4	3	3	2	2	6
23	1	3	2	0	0	3	2	1	8	9	8	6	4	8	4	3	6	7	5	5	1	3	1	1	0	9
24	3	0	1	1	1	1	1	1	2	2	1	2	4	4	6	7	6	7	6	4	2	1	1	1	1	3
25	0	1	1	0	3	2	1	3	2	2	2	1	3	4	1	2	4	4	5	4	5	3	3	1	6	6
26	6	8	7	5	4	4	8	4	6	6	7	6	4	5	4	4	5	0	9	4	3	8	10	7	7	10
27	8	6	4	4	4	4	3	2	3	6	7	5	5	6	6	7	7	8	7	1	4	9	5	7	5	9
28	7	5	2	3	4	2	4	1	1	3	3	4	5	4	0	1	5	5	8	4	6	8	1	3	4	8
29	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
30	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
AV	4	4	4	3	3	2	3	3	4	5	5	5	6	7	6	7	7	7	6	5	4	5	4	4	5	16
PK	16	16	14	11	9	8	8	8	10	9	12	10	10	14	14	13	14	14	11	10	9	10	10	12	14	

WIND SPEED @10M

C-B TRACT
MRI AD42
June. 1981

DATA NOT AVAILABLE AT REPORT TIME

WIND SPEED @10M

C-B TRACT
MRI AD56
June, 1981

DATA NOT AVAILABLE AT REPORT TIME

WIND DIRECTION @10M
DEGREES

CB-TRACT
TRAILER AR20
JUNE 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	PREV
1	131	124	129	124	129	129	129	127	119	283	287	309	301	279	284	293	274	301	225	132	56	117	114	113	151
2	125	124	117	113	117	131	122	132	135	130	118	48	284	289	148	204	184	280	317	315	74	110	325	6	121
3	325	60	136	132	90	82	126	136	109	90	275	45	29	269	330	306	285	199	57	118	330	30	86	113	72
4	307	40	90	99	50	104	132	133	284	329	300	298	274	276	278	283	352	14	32	46	127	131	120	117	31
5	124	90	90	109	107	105	114	119	292	8	297	305	287	281	310	17	347	352	23	48	118	124	117	129	62
6	111	142	102	125	135	136	135	132	144	206	202	215	214	196	224	241	231	221	241	32	90	133	73	169	163
7	87	119	126	109	121	133	128	127	210	212	204	222	231	247	222	250	249	239	217	261	122	93	110	115	172
8	112	104	97	101	103	103	106	216	205	241	242	223	219	231	228	225	210	225	221	145	40	101	103	99	166
9	107	104	108	104	109	99	110	119	295	300	297	297	304	311	305	301	302	346	6	53	56	61	104	140	39
10	138	125	120	123	118	125	135	128	118	105	243	228	224	226	244	244	245	289	302	352	28	293	279	313	197
11	0	19	25	35	44	57	101	132	135	169	279	282	293	246	246	191	225	215	213	205	119	109	105	101	129
12	96	106	108	101	101	112	109	163	180	164	178	176	185	207	193	267	257	307	310	322	332	305	326	350	299
13	108	3	87	106	297	288	286	279	278	277	298	302	289	249	250	284	310	283	307	4	36	99	114	131	338
14	0	90	90	102	86	135	289	306	293	319	329	319	305	287	245	284	298	292	284	356	121	126	127	123	272
15	111	115	125	132	112	132	133	292	271	276	296	292	313	292	311	340	216	223	203	197	105	117	118	123	156
16	111	130	106	107	115	109	135	145	138	193	184	211	175	192	211	194	296	299	314	311	325	45	98	112	338
17	128	144	133	46	115	105	109	90	324	297	289	292	293	287	287	292	296	289	286	38	61	105	120	118	109
18	117	117	120	117	115	129	127	138	300	320	132	101	290	282	283	295	298	284	289	306	39	107	116	125	168
19	127	129	129	135	136	138	134	131	146	299	29	285	278	280	232	269	273	284	289	306	303	94	103	109	114
20	124	93	96	95	121	114	123	130	124	297	286	294	287	261	250	250	278	286	295	303	311	337	77	106	106
21	118	106	105	120	121	119	135	304	300	286	290	278	274	275	276	281	291	297	300	311	337	77	106	106	295
22	114	125	128	121	117	106	131	125	129	114	127	332	312	301	283	287	289	298	21	49	106	127	131	125	110
23	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	236	240	265	246	286	297	325	308	304	316	115	82	117	117	127	271
24	131	129	109	118	107	109	124	118	297	298	284	298	288	290	296	308	306	299	308	30	105	107	118	124	68
25	125	111	105	121	125	141	307	317	318	295	290	295	278	207	155	20	295	53	66	60	109	111	110	113	90
26	104	100	113	120	79	121	127	126	145	185	242	252	265	232	276	292	354	282	154	93	60	111	119	74	132
27	112	117	127	131	122	125	134	107	90	175	189	247	258	266	310	319	312	303	290	131	94	112	88	129	137
28	81	96	106	123	134	115	115	98	105	125	92	176	217	98	102	166	21	262	137	106	95	95	107	109	114
29	107	129	134	135	133	131	129	130	129	129	101	283	289	291	282	286	269	127	107	105	113	96	93	103	126
30	94	115	127	139	115	122	130	133	146	294	280	280	281	267	27	317	274	117	111	110	104	127	104	115	124
PV	107	107	111	113	111	117	126	132	173	252	260	276	272	263	265	278	281	281	292	53	78	103	106	112	126

WIND DIRECTION @ 10M
DEGREES

CB-TRACT
TRAILER AA23
JUNE 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	PREV
1	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()
2	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()
3	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()
4	312	268	262	225	224	194	42	20	331	19	23	323	349	306	329	331	5	18	32	57	170	209	291	130	330
5	188	190	185	226	183	217	49	8	354	10	4	9	339	323	321	341	24	4	39	41	146	149	168	212	0
6	180	161	117	135	151	109	83	29	227	228	214	220	240	219	217	235	225	220	222	267	68	140	68	111	182
7	37	154	151	186	105	89	99	219	224	215	214	220	232	239	239	239	251	238	216	250	206	227	221	190	208
8	201	217	216	216	214	213	225	228	224	238	230	227	217	225	237	234	232	230	227	214	210	223	205	205	221
9	209	211	211	215	212	231	16	317	297	317	297	322	336	325	318	330	310	343	21	40	172	230	247	212	284
10	215	263	280	213	223	(CM)	243	94	92	262	232	229	223	226	226	234	235	260	320	8	35	313	273	272	248
11	259	264	251	227	225	192	41	4	335	0	348	320	239	229	218	221	228	237	233	213	203	209	209	208	243
12	197	198	200	204	198	79	204	204	209	209	208	216	217	223	211	214	229	234	229	225	209	203	207	221	210
13	240	269	309	332	305	302	306	308	320	305	323	2	250	237	229	246	254	268	318	334	356	4	9	357	303
14	357	339	259	228	232	276	306	325	326	339	341	336	333	300	299	312	324	291	298	5	27	223	222	220	304
15	211	212	124	226	202	171	90	26	0	322	327	334	354	333	356	330	320	319	315	310	234	220	(CM)	171	300
16	125	183	221	210	186	250	78	38	233	221	218	223	209	210	221	225	231	232	215	199	199	197	207	202	208
17	203	201	201	214	222	282	278	318	309	289	278	298	(PF)	301	289	297	295	302	325	319	312	341	279	180	280
18	229	236	227	220	180	214	65	53	294	39	128	216	284	300	264	269	223	229	252	304	226	228	213	245	240
19	262	208	229	196	198	211	96	60	317	293	287	298	294	277	225	238	235	287	296	310	276	286	233	199	258
20	213	175	214	230	109	99	101	302	261	274	263	291	278	248	231	243	245	279	292	291	258	222	241	169	244
21	220	156	174	200	198	129	90	338	339	315	299	289	301	298	283	296	284	300	309	321	324	289	356	225	287
22	(CM)	184	149	221	301	(CM)	81	83	74	47	51	195	256	263	272	307	312	352	6	117	173	211	209	223	224
23	228	175	129	102	128	120	100	55	215	225	227	257	246	287	278	341	335	322	336	118	119	49	193	215	198
24	233	193	274	239	221	220	79	315	311	333	325	343	353	352	318	329	338	328	335	341	135	242	192	228	296
25	184	225	218	197	168	282	278	270	299	340	351	312	352	218	104	23	349	25	68	104	154	191	184	151	240
26	149	161	121	94	158	162	175	199	187	208	219	249	259	266	248	284	20	158	181	122	145	111	126	174	176
27	127	174	145	97	150	97	82	56	192	209	223	222	229	212	324	343	343	316	294	122	186	196	129	164	171
28	171	132	188	149	147	105	145	75	201	248	219	201	229	213	209	225	38	300	178	165	187	171	79	117	174
29	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()
30	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()
PV	208	200	202	203	192	185	82	4	282	289	274	274	272	265	265	283	289	284	293	333	191	218	207	193	245

WIND DIRECTION @ 30M
DEGREES

DAY	HOUR (LOCAL STANDARD TIME)																								PREV
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()
2	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()
3	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()
4	327	293	299	246	246	207	49	19	326	13	17	317	346	303	324	327	1	12	25	48	87	68	260	122	118
5	112	135	140	211	187	199	60	29	350	3	5	0	333	318	314	337	18	359	33	30	110	110	133	311	45
6	170	139	265	119	136	112	101	45	222	222	210	215	238	214	210	229	222	215	218	265	28	110	126	136	174
7	30	132	143	176	110	98	117	212	219	210	209	215	227	227	234	235	227	235	215	246	208	229	224	187	184
8	197	214	214	213	213	211	221	222	219	234	225	222	212	219	233	228	227	235	222	211	204	215	201	203	203
9	207	209	209	215	212	231	330	307	291	309	278	312	330	319	313	324	306	336	16	39	75	249	262	225	287
10	218	229	345	205	229	236	(CM)	87	83	251	227	225	218	221	222	228	230	256	318	2	31	312	271	274	248
11	272	275	274	235	235	214	50	357	338	5	341	318	234	224	211	216	222	232	228	211	199	208	205	203	244
12	190	190	192	197	191	159	195	197	204	205	202	209	210	217	205	208	223	228	222	222	207	202	204	217	204
13	234	264	326	337	311	302	302	305	315	302	319	355	244	231	224	242	248	263	317	331	351	359	4	353	302
14	2	346	291	31	248	254	305	321	321	333	335	330	327	295	289	306	319	289	297	0	17	(CM)	237	231	312
15	215	191	125	186	(CM)	127	83	23	354	318	323	327	349	327	348	325	314	314	309	312	315	237	15	(CM)	325
16	121	146	163	230	(CM)	320	58	37	224	215	212	215	203	201	216	220	225	226	210	195	196	194	202	196	202
17	197	194	194	204	214	253	281	314	301	279	272	290	(PF)	298	287	295	292	300	321	315	310	344	339	90	282
18	258	258	242	202	(CM)	217	356	55	291	36	119	210	281	294	260	264	216	225	249	321	257	236	219	255	254
19	293	(CM)	238	183	175	204	130	56	315	287	280	291	288	272	221	235	231	285	295	309	283	291	32	70	269
20	204	138	149	294	94	39	(CM)	262	258	271	259	288	274	242	228	239	240	275	289	291	273	230	256	151	250
21	214	196	145	180	201	69	84	339	335	310	292	282	296	293	276	291	277	293	305	318	323	311	354	13	298
22	22	106	119	109	352	(CM)	82	75	68	46	49	192	250	259	266	302	309	347	4	84	141	160	165	170	79
23	243	156	127	90	124	117	104	(CM)	210	220	223	252	244	283	275	335	331	317	333	100	76	40	94	197	188
24	258	172	332	270	231	235	(CM)	313	308	330	330	338	347	344	314	324	333	323	331	339	62	351	101	307	319
25	146	322	166	(CM)	137	209	280	266	295	336	343	311	348	211	78	15	342	18	62	90	138	154	180	137	17
26	135	149	115	87	153	154	164	189	177	201	216	243	253	259	241	276	14	146	173	111	128	98	117	168	166
27	117	154	133	100	138	101	80	52	185	203	217	218	222	203	318	338	336	311	289	84	171	186	119	152	158
28	160	131	180	140	134	104	166	101	194	238	211	191	223	206	201	220	33	304	163	166	180	161	97	99	168
29	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()
30	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()

172

176

214

137

347

289

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23

WIND DIRECTION @ 604
DEGREES

CB-TRACT
TRAILER AA23
JUNE 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	PREV
1	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()
2	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()
3	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()
4	346	323	319	5	318	249	237	4	336	20	21	327	354	314	334	337	9	22	36	58	98	117	356	52	356
5	76	132	137	146	164	161	123	34	357	11	22	3	340	330	324	346	27	8	42	43	104	128	135	168	61
6	186	160	286	123	156	148	147	76	229	230	219	223	244	222	216	236	231	223	227	272	348	126	73	114	199
7	35	134	159	184	154	136	173	221	226	218	216	223	235	235	241	243	253	243	227	253	226	246	248	208	216
8	211	224	224	223	222	225	230	230	228	242	233	229	219	225	239	235	235	232	230	223	220	228	221	219	227
9	220	220	220	225	224	239	244	311	298	317	246	321	339	329	322	333	315	347	28	56	79	289	284	257	296
10	233	253	300	195	246	257	250	106	102	258	236	234	226	228	229	235	237	261	323	12	43	329	289	293	256
11	301	298	310	270	273	256	(CM)	2	349	9	348	330	242	231	218	224	229	240	236	224	218	222	219	215	263
12	202	203	207	211	203	197	202	204	211	214	210	216	218	224	212	216	230	235	232	230	221	216	216	227	215
13	243	272	341	346	328	315	312	314	324	311	326	1	251	239	232	250	256	271	324	338	2	10	17	4	311
14	18	0	317	46	280	276	317	332	329	343	346	340	337	304	298	316	328	297	305	8	19	36	308	267	329
15	243	222	161	132	94	123	94	35	7	326	333	336	356	338	355	334	323	321	318	321	21	279	129	0	349
16	4	124	129	144	135	48	(CM)	62	224	221	217	220	211	207	222	228	232	234	218	207	208	206	209	206	200
17	207	204	202	213	222	251	305	322	304	289	293	298	(PF)	303	295	301	298	306	329	324	319	358	5	62	293
18	299	298	265	177	0	255	307	45	300	49	128	217	286	300	266	270	222	233	257	330	307	264	253	275	278
19	304	341	261	225	172	220	182	82	318	294	248	299	298	283	230	242	237	293	301	315	297	306	43	57	283
20	148	147	129	284	174	187	213	244	265	275	268	294	281	249	235	246	248	282	296	299	295	265	282	162	248
21	237	238	228	208	219	57	69	348	345	317	301	292	304	301	285	299	287	303	314	326	331	323	356	9	306
22	20	95	115	119	78	129	103	83	77	57	63	205	259	266	275	310	316	355	13	91	143	154	158	175	96
23	257	168	145	9	102	127	130	238	219	228	230	261	255	289	281	344	340	326	341	95	51	47	71	292	280
24	297	129	4	308	254	268	270	307	318	341	332	343	353	350	323	334	343	331	340	348	50	39	98	338	335
25	189	347	226	42	145	169	344	276	301	343	349	321	350	228	76	24	351	27	73	100	131	149	184	151	29
26	150	161	137	109	170	169	177	194	188	209	225	249	259	266	250	284	23	155	184	123	132	109	130	184	178
27	133	164	148	125	156	132	121	69	194	211	225	227	229	209	327	348	346	320	301	73	174	196	136	161	172
28	173	156	184	168	151	149	193	187	212	243	216	199	233	216	207	229	45	323	169	179	189	176	148	112	186
29	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()
30	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()
PV	236	196	209	178	187	195	206	350	285	290	276	276	275	268	269	286	292	289	296	355	65	240	174	194	268

WIND DIRECTION @10M

C-B TRACT
MRI AD42
June, 1981

DATA NOT AVAILABLE AT REPORT TIME

WIND DIRECTION @10M

C-B TRACT
MRI AD56
June, 1981

DATA NOT AVAILABLE AT REPORT TIME

WIND DIRECTION AND
VECTOR AVERAGE VELOCITY (DFG & MPS)
10 METER LEVEL

CR-TRACT
TRAILER AR20
JUNE 1981
OCCIDENTAL OIL SHALE, INC.

DAY	HOUR (LOCAL STANDARD TIME)										VECTOR															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DIR	VEL
1	131	124	129	124	129	129	129	127	119	283	287	309	301	279	284	293	274	301	225	132	56	117	114	113	226	0.3
2	125	124	117	113	117	131	122	132	135	130	118	48	284	289	148	204	184	280	317	315	74	110	325	6	144	0.5
3	325	60	136	132	90	82	126	136	109	90	275	45	29	269	330	306	285	199	57	118	330	30	86	113	64	0.3
4	307	40	90	99	50	104	132	133	284	329	300	298	274	276	278	283	352	14	32	46	127	131	120	117	332	0.4
5	124	90	90	109	107	105	114	119	292	8	297	305	287	281	310	17	347	352	23	48	118	124	117	129	8	0.4
6	111	142	102	125	135	136	135	132	144	206	202	215	214	196	224	241	231	221	241	32	90	133	73	169	171	1.5
7	87	119	126	109	121	133	128	127	210	212	204	222	231	247	222	250	249	239	217	261	122	93	110	115	202	1.5
8	112	104	97	101	103	103	106	216	205	241	242	223	219	231	228	225	210	225	221	145	40	101	103	99	196	1.5
9	107	104	108	104	109	99	110	119	295	300	297	297	304	311	305	301	302	346	6	53	56	61	104	140	325	1.1
10	138	125	120	123	118	125	135	128	118	105	243	228	224	226	244	244	245	289	302	352	28	293	279	313	238	1.2
11	0	19	25	35	44	57	101	132	135	169	279	282	293	246	246	244	221	230	224	146	106	87	109	101	214	0.6
12	95	106	108	101	101	112	109	163	180	164	178	176	185	207	193	191	225	215	213	205	119	109	105	100	167	2.4
13	108	3	87	106	297	288	286	279	278	277	298	302	289	249	250	267	257	307	310	322	332	305	326	350	284	2.3
14	0	90	90	102	86	135	289	306	293	319	329	319	305	287	245	284	310	283	307	4	36	99	114	131	309	1.1
15	111	115	125	132	112	132	133	292	271	276	296	292	313	292	311	340	298	292	284	356	121	126	127	123	295	0.5
16	111	130	106	107	115	109	135	145	138	193	194	211	175	192	211	194	216	223	203	197	105	117	118	123	171	1.7
17	128	144	133	46	115	105	109	90	324	297	289	292	293	287	287	292	296	299	314	311	325	45	98	112	297	2.0
18	117	117	120	117	115	129	127	138	300	320	132	101	290	282	283	295	298	289	286	38	61	105	120	118	283	0.2
19	127	129	129	135	136	138	134	131	146	299	29	285	278	280	232	269	273	284	289	306	39	107	116	125	262	0.8
20	124	93	96	95	121	114	123	130	124	297	296	294	287	261	250	250	278	286	295	303	94	103	109	114	274	0.9
21	118	106	105	120	121	119	135	304	300	286	290	278	274	275	276	281	291	297	300	311	337	77	106	106	287	1.7
22	114	125	128	121	117	106	131	125	129	114	127	332	312	301	283	287	289	298	21	49	106	127	131	125	96	0.2
23	***	***	***	***	***	***	***	***	***	236	240	265	246	286	297	325	308	304	316	115	82	117	117	127	273	1.4
24	131	129	109	118	107	109	124	118	297	298	284	298	288	290	296	308	306	299	308	30	105	107	118	124	316	0.5
25	125	111	105	121	125	141	307	317	318	295	290	295	278	207	155	20	295	53	66	60	109	111	110	113	104	0.3
26	104	100	113	120	79	121	127	126	145	185	242	252	265	232	276	292	354	282	154	93	60	111	119	74	126	1.2
27	112	117	127	131	122	126	134	107	90	175	189	247	258	266	310	319	312	303	290	131	94	112	88	129	154	0.5
28	81	94	106	123	134	115	115	98	105	125	92	176	217	98	102	166	21	262	137	106	95	95	107	109	108	1.4
29	107	129	134	135	133	131	129	130	129	129	101	283	289	291	282	286	269	127	107	105	113	96	93	103	124	1.0
30	94	115	127	139	115	122	130	133	146	294	280	280	281	267	27	317	274	117	111	110	104	127	104	115	125	0.9
VD	112	116	117	116	112	119	127	136	211	251	261	269	268	262	264	274	276	281	297	29	83	107	108	110	222	
VV	1.6	1.5	1.6	1.6	1.6	1.4	1.4	1.0	0.4	1.2	1.5	2.0	2.4	2.8	2.6	2.7	2.6	2.3	1.1	0.7	1.0	1.3	1.5	1.4		0.4

TOTAL NUMBER OF OBSERVATIONS = 711

NOTE: *** = MISSING DATA

WIND DIRECTION AND
VECTOR AVERAGE VELOCITY (DEG & MPS)
10 METER LEVEL

CR-TRACT
TRAILER AA23
JUNE 1981
OCCIDENTAL OIL SHALE, INC.

DAY	1	2	3	4	5	6	7	8	9	10	HOUR (LOCAL STANDARD TIME)												16	17	18	19	20	21	22	23	24	VECTOR	
											11	12	13	14	15											DIR	VEL						
1	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***							
2	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***							
3	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***							
4	312	268	262	225	224	194	42	20	331	19	23	323	349	306	340	328	273	209	286	95	170	209	291	130	336	0.6							
5	188	190	185	226	183	217	49	8	354	10	4	9	339	323	329	331	341	24	18	32	57	170	209	291	130	336	0.3						
6	180	161	117	135	151	109	83	29	227	228	214	220	240	219	217	235	225	220	222	267	68	140	149	168	212	4	0.3						
7	37	154	151	186	105	89	99	219	224	215	214	220	232	232	239	239	251	238	216	250	206	227	221	190	222	3.3							
8	201	217	216	215	214	213	225	228	224	238	230	227	217	225	237	234	232	230	227	214	210	223	205	205	223	5.0							
9	209	211	211	215	212	231	16	317	297	317	287	322	336	325	318	330	310	343	21	40	172	230	247	212	285	1.7							
10	215	223	280	213	223	***	243	94	92	262	232	229	223	226	226	234	235	260	320	8	35	313	273	272	245	2.4							
11	259	264	251	227	225	192	41	4	335	0	348	320	239	229	218	221	228	237	233	213	203	209	209	208	229	2.5							
12	197	198	200	204	198	79	204	204	209	209	208	216	217	223	211	214	229	234	229	225	209	203	207	221	213	5.3							
13	240	269	309	332	305	302	306	308	320	305	323	2	250	237	229	246	254	268	318	334	356	4	9	357	283	3.1							
14	357	339	259	228	232	276	306	325	326	339	341	336	333	300	299	312	324	291	298	5	27	223	222	220	312	1.7							
15	211	212	124	226	202	171	90	26	0	322	327	334	354	333	356	330	320	319	315	310	234	220	***	171	321	1.0							
16	125	183	221	210	186	250	78	38	233	221	218	223	209	210	221	225	231	232	215	199	199	197	207	202	214	3.7							
17	203	201	201	214	222	282	278	318	309	289	278	298	***	301	289	297	295	302	325	319	312	341	279	180	272	3.1							
18	229	236	227	220	180	214	65	53	294	39	128	216	284	300	264	269	223	229	252	304	226	228	213	245	246	1.4							
19	262	208	229	196	198	211	96	60	317	293	287	298	294	277	225	238	235	287	296	310	276	286	233	199	273	2.4							
20	213	175	214	230	109	99	101	302	261	274	263	291	278	248	231	243	245	279	292	291	258	222	241	169	259	2.8							
21	220	156	174	200	198	129	90	338	339	315	299	289	301	298	283	296	284	300	309	321	324	289	356	225	296	2.8							
22	***	184	149	221	301	***	81	83	74	47	51	195	256	263	272	307	312	352	6	117	173	211	209	223	289	0.4							
23	228	175	129	102	128	120	100	55	215	225	227	257	246	287	278	341	335	322	336	118	119	49	193	215	253	1.0							
24	233	193	274	239	221	220	79	315	311	333	325	343	353	352	318	329	338	328	335	341	135	242	192	228	320	1.3							
25	184	225	218	197	168	282	278	270	299	340	351	312	352	218	104	23	349	25	68	104	164	191	184	151	151	0.0							
26	149	161	121	94	158	162	175	199	187	208	219	249	259	266	248	284	20	158	181	122	145	111	126	174	176	2.1							
27	127	174	145	97	150	97	82	56	192	209	223	222	229	212	324	343	343	316	294	122	186	196	129	164	206	0.9							
28	171	132	188	149	147	105	145	75	201	248	219	201	229	213	209	225	38	300	178	165	187	171	79	117	177	1.2							
29	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***						
30	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***						
VD	204	201	197	203	196	173	146	279	249	255	249	263	261	258	254	269	272	277	276	293	210	206	197	197	245								
VV	1.8	1.9	1.5	1.4	1.3	0.5	0.2	0.5	1.4	1.9	2.3	2.6	2.8	3.6	3.3	3.3	3.0	3.3	2.0	0.8	1.0	1.3	1.1	1.7	1.7	1.6							

TOTAL NUMBER OF OBSERVATIONS = 605

NOTE: *** = MISSING DATA

WIND DIRECTION AND
VECTOR AVERAGE VELOCITY (DEG & MPS)
30 METER LEVEL

CB-TRACT
TRAILER AA23
JUNE 1981
OCCIDENTAL OIL SHALE, INC.

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	VECTOR DIR VEL	
1	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	
2	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	
3	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	
4	327	293	299	246	246	207	49	19	326	13	17	317	346	303	324	327	1	12	25	48	111	133	311	45	345	
5	112	135	140	211	187	199	60	29	350	3	5	0	333	318	314	337	18	359	33	30	110	126	136	174	39	
6	170	139	265	119	136	112	101	45	222	222	210	215	238	214	210	229	222	215	218	265	28	122	61	101	206	
7	30	132	143	176	110	98	117	212	219	210	209	215	227	227	234	235	247	235	215	246	208	229	224	187	217	
8	197	214	214	213	210	211	221	222	219	234	225	222	212	219	233	228	227	225	222	211	204	215	201	203	218	
9	207	209	209	215	212	231	330	307	291	309	278	312	330	319	313	324	306	336	16	39	75	249	262	225	273	
10	218	229	345	205	229	236	***	87	83	251	227	225	218	221	222	228	230	256	318	2	31	312	271	274	243	
11	272	275	274	235	235	214	50	357	338	5	341	318	234	224	211	216	222	232	228	211	199	208	205	203	225	
12	190	190	192	197	191	159	195	197	204	205	202	209	210	217	205	208	223	228	225	222	207	202	204	217	207	
13	234	264	326	337	311	302	302	305	315	302	319	355	244	231	224	242	248	263	317	331	351	359	4	353	277	
14	2	346	291	31	248	254	305	321	321	333	335	330	327	295	289	306	319	289	297	0	17	***	237	231	315	
15	215	191	125	186	***	127	83	23	354	318	323	327	349	327	348	325	314	314	309	312	315	237	15	***	327	
16	121	146	163	230	***	320	58	37	224	215	212	215	203	201	216	220	225	226	210	195	196	194	202	196	208	
17	197	194	194	204	214	253	281	314	301	279	272	290	***	298	287	295	292	300	321	315	310	344	339	90	266	
18	258	258	242	202	***	217	356	55	291	36	119	210	281	294	260	264	216	225	249	321	257	236	219	255	251	
19	293	***	238	183	175	204	130	56	315	287	280	291	288	272	221	235	231	285	295	309	283	291	32	70	272	
20	204	138	149	294	94	39	***	262	258	271	259	288	274	242	228	239	240	275	289	291	273	230	256	151	258	
21	214	196	145	180	201	69	84	339	335	310	292	282	296	293	276	291	277	293	305	318	323	311	354	13	295	
22	22	106	119	109	352	***	82	75	68	46	49	192	250	259	266	302	309	347	4	84	141	160	165	170	359	
23	243	156	127	90	124	117	104	***	210	220	223	252	244	283	275	335	331	317	333	100	76	40	94	197	253	
24	258	172	332	270	231	235	***	313	308	330	323	338	347	344	314	324	333	323	331	339	62	351	101	307	325	
25	146	322	166	***	137	209	280	266	295	336	343	311	348	211	78	15	342	18	62	90	138	154	180	137	82	
26	135	149	115	87	153	154	164	189	177	201	216	243	253	259	241	276	14	146	173	111	128	98	117	168	164	
27	117	154	133	100	138	101	80	52	185	203	217	218	222	203	318	338	336	311	289	84	171	186	119	152	186	
28	160	131	180	140	134	104	166	101	194	238	211	191	223	206	201	220	33	304	163	166	180	161	97	99	167	
29	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
30	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
VD	196	190	189	193	192	172	170	261	241	248	243	257	256	252	249	263	267	272	272	296	202	196	186	186	239	
VV	2.1	2.6	1.8	1.8	1.9	0.8	0.5	0.6	1.8	2.5	3.1	3.4	3.7	4.8	4.4	4.3	4.1	4.4	2.6	1.2	1.1	1.7	1.3	2.2	2.1	

TOTAL NUMBER OF OBSERVATIONS = 598

NOTE: *** = MISSING DATA

WIND DIRECTION AND
VECTOR AVERAGE VELOCITY (DEG & MPS)
60 METER LEVEL

CR-TRACT
TRAILER AA23
JUNE 1981
OCCIDENTAL OIL SHALE, INC.

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	VECTOR DIR VEL
1	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
2	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
3	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
4	346	323	319	5	318	249	237	4	336	20	21	327	354	314	334	337	9	22	36	58	95	84	278	134	119
5	76	132	137	146	164	161	123	34	357	11	22	3	340	330	324	346	27	8	42	43	104	128	135	169	52
6	186	160	286	123	156	148	147	76	229	230	219	223	244	222	216	236	231	223	227	272	272	348	126	73	114
7	35	134	159	184	154	136	173	221	226	218	216	223	235	235	241	243	253	243	227	253	226	246	248	208	226
8	211	224	224	223	222	225	230	230	228	242	233	229	219	225	239	235	235	235	230	223	220	228	221	219	227
9	220	220	220	226	224	239	284	311	298	317	286	321	339	329	322	333	315	347	28	56	79	289	284	257	281
10	233	253	300	195	246	257	250	106	102	258	236	324	226	228	229	235	237	261	323	12	43	329	289	293	252
11	301	298	310	270	273	256	***	2	349	9	348	330	242	231	218	224	229	240	236	224	218	222	219	215	237
12	202	203	207	211	208	197	202	204	211	214	210	216	218	224	212	216	230	235	232	230	221	216	216	227	9.0
13	243	272	341	346	328	315	312	314	324	311	326	1	251	239	232	250	256	271	324	338	2	10	17	4	287
14	18	0	317	46	280	276	317	332	329	343	346	340	337	304	298	316	328	297	305	8	19	36	308	267	330
15	243	222	161	132	94	123	94	35	7	326	333	335	356	338	355	334	323	321	318	321	21	279	129	0	338
16	4	124	129	144	135	48	***	62	224	221	217	220	211	207	222	228	232	234	218	207	208	206	209	206	214
17	207	204	202	213	222	251	305	322	304	289	283	298	***	303	295	301	298	306	329	324	319	358	5	62	272
18	299	298	265	177	0	255	307	45	300	49	128	218	286	300	266	270	222	233	257	330	307	264	253	275	266
19	304	341	261	225	172	220	182	82	318	294	288	299	298	283	230	242	237	293	301	315	297	306	43	57	283
20	148	147	129	284	174	187	213	244	265	275	268	294	281	249	235	246	248	282	296	299	295	265	282	162	265
21	237	238	228	208	219	57	69	348	345	317	301	292	304	301	285	299	287	303	314	326	331	323	356	9	307
22	20	95	115	119	78	129	103	83	77	57	63	205	259	266	275	310	316	355	13	91	143	154	158	175	65
23	257	168	145	9	102	127	130	238	219	228	230	261	255	289	281	344	340	326	341	95	51	47	71	292	268
24	297	129	4	308	254	268	270	307	318	341	332	343	353	350	323	334	343	331	340	348	50	39	98	338	337
25	189	347	226	42	145	169	344	276	301	343	349	321	350	228	76	24	351	27	73	100	131	149	184	151	83
26	150	161	137	109	170	169	177	194	188	209	225	249	259	266	250	284	23	155	184	123	132	109	130	184	176
27	133	164	148	125	156	132	121	69	194	211	225	227	229	209	327	348	346	320	301	73	174	196	136	161	192
28	173	156	184	168	151	149	193	187	212	243	216	199	233	216	207	229	45	323	169	179	189	176	148	112	184
29	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
30	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
VD	209	202	201	200	206	199	208	256	249	256	252	266	265	260	257	271	274	280	279	301	227	208	201	200	249
VV	2.4	2.7	2.1	1.9	1.9	1.1	1.1	0.9	2.0	2.7	3.3	3.8	4.0	5.2	4.6	4.7	4.4	4.8	3.0	1.4	1.1	1.7	1.5	2.3	2.3

TOTAL NUMBER OF OBSERVATIONS = 608

NOTE: **** = MISSING DATA

SIGMA HORIZ. WIND DIR. 910M
NEGREFS

CB-TRACT
TRAILER AR20
JUNE 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	6	4	6	6	7	7	4	1	1	18	21	17	17	19	13	12	11	5	5	6	5	20	3	3	9	21
2	7	15	2	2	3	5	5	2	1	0	12	10	20	16	22	19	16	13	12	3	4	11	9	5	8	22
3	8	3	11	1	2	0	7	3	3	24	19	7	6	12	9	11	2	7	10	6	10	3	5	5	5	15
4	12	3	2	7	7	7	7	6	9	8	11	21	13	12	10	28	18	10	1	5	3	3	3	13	9	24
5	5	6	4	2	7	9	6	3	8	21	23	24	26	21	21	20	18	13	15	6	4	5	5	4	9	28
6	14	5	7	1	6	6	5	1	18	20	23	23	22	23	24	20	20	20	14	5	7	8	14	19	13	26
7	14	9	3	9	5	4	4	11	20	20	20	24	24	22	23	20	21	21	17	18	4	9	3	5	13	24
8	6	9	9	1	10	8	3	0	16	12	15	20	19	23	15	13	13	15	9	2	0	0	6	8	14	24
9	6	7	5	5	11	9	2	1	0	7	22	24	25	23	21	21	25	15	14	22	9	11	3	1	9	23
10	1	1	1	1	1	2	2	1	0	4	4	5	21	27	24	20	22	22	17	6	9	10	6	4	12	29
11	3	2	0	0	0	0	3	0	0	19	21	20	20	26	24	21	23	24	20	18	2	4	4	4	13	26
12	3	3	4	5	5	6	4	12	21	9	12	11	15	25	22	20	19	11	9	13	24	30	23	5	15	30
13	5	21	11	4	24	11	9	8	11	18	22	21	27	25	26	16	18	11	12	2	4	1	2	1	11	27
14	4	1	1	12	4	4	2	10	11	15	24	22	22	20	22	23	26	7	9	10	3	3	4	5	11	26
15	5	3	5	3	5	5	3	2	1	30	25	24	24	24	25	21	21	24	22	18	4	7	8	2	14	30
16	17	22	24	11	19	7	1	2	18	12	13	13	15	14	14	13	12	12	13	10	4	2	3	2	11	24
17	17	3	5	3	7	4	5	5	16	7	13	15	19	19	19	14	13	14	4	8	1	3	9	6	9	19
18	2	3	5	3	7	4	6	5	10	18	15	13	14	20	24	23	17	12	11	8	4	1	2	3	10	24
19	6	1	8	8	8	6	6	5	13	13	15	13	15	21	21	22	14	13	10	8	4	1	1	2	9	22
20	4	1	3	1	4	5	3	4	7	13	16	13	14	15	13	15	15	10	11	12	7	5	2	1	9	16
21	1	2	3	7	5	7	4	13	0	8	21	21	25	26	22	14	13	8	2	4	2	3	4	6	8	26
22	2	1	2	1	1	2	2	0	0	20	22	23	21	13	16	15	15	13	6	8	6	6	2	4	13	26
23	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	20	22	14	17	23	15	21	21	11	10	8	2	0	2	3	9	23
24	3	8	4	2	3	3	5	1	17	12	5	13	18	19	12	33	17	21	11	5	6	6	6	10	11	33
25	2	3	2	5	8	12	12	10	8	7	8	13	18	23	19	19	21	21	14	20	5	8	10	13	15	34
26	8	3	8	10	12	9	14	14	20	15	30	23	27	34	11	14	13	11	8	10	8	7	9	6	10	20
27	9	7	7	6	7	3	2	3	6	15	20	18	16	14	11	13	13	14	15	10	4	4	1	2	7	24
28	7	4	1	4	1	3	3	1	4	9	2	16	13	3	12	7	7	14	15	6	3	4	1	2	4	11
29	1	4	3	2	1	0	0	0	0	0	11	10	10	5	6	25	18	11	7	1	2	1	5	5	4	11
30	2	5	4	4	1	1	2	0	7	3	8	11	15	23	16	25	18	7	0	1	2	5	2	2	7	25
AV	6	6	5	5	6	5	5	5	9	13	16	17	18	20	18	18	17	13	10	9	6	6	5	5	10	
PK	17	22	24	12	24	12	14	14	21	30	30	24	27	34	26	33	26	24	22	22	29	30	23	19		34

SIGMA HORIZ. WIND DIR. @ 10M
DEGREES

CB-TRACT
TRAILER AA23
JUNE 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
2	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
3	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
4	8	8	6	4	3	6	10	30	24	31	35	30	41	22	29	32	26	18	9	13	6	11	12	15	18	41
5	10	8	12	6	10	7	22	35	23	22	41	30	48	44	28	24	20	19	10	8	5	6	5	7	19	48
6	8	10	10	6	9	5	7	31	12	11	13	14	25	15	19	15	12	9	8	11	15	13	22	14	13	31
7	12	10	18	12	8	7	11	15	10	11	12	13	17	12	13	10	11	9	7	10	9	12	6	15	11	18
8	6	7	6	7	7	6	9	10	11	13	14	13	12	14	15	13	13	10	9	6	6	12	5	6	10	15
9	6	7	7	7	7	21	29	18	16	19	28	21	16	17	14	15	14	11	9	5	10	5	5	9	13	29
10	4	7	13	4	4	(CM)	20	23	33	34	16	16	13	13	15	13	11	11	9	10	16	10	10	7	14	34
11	6	6	6	4	7	11	33	28	25	31	27	30	25	18	18	18	15	11	8	6	6	6	7	7	15	33
12	5	6	5	6	10	25	20	10	14	14	12	14	14	13	12	12	12	10	9	9	6	6	7	9	11	25
13	8	11	17	13	6	7	8	11	25	36	30	27	18	12	11	13	11	13	8	10	12	12	9	8	14	36
14	8	10	10	12	5	15	20	14	15	13	14	21	21	17	40	26	18	12	11	8	10	8	6	3	14	40
15	18	16	10	5	24	23	17	21	45	29	26	24	30	38	24	44	29	20	11	9	12	3	(CM)	9	21	45
16	14	10	5	17	14	16	21	19	33	11	18	20	20	16	15	13	12	11	11	9	7	7	8	8	14	33
17	8	7	8	9	21	28	9	13	27	27	14	13	(PF)	13	12	12	12	10	9	7	7	8	15	14	13	28
18	10	4	4	21	16	6	14	25	18	43	23	32	15	16	25	19	22	14	9	15	6	6	9	20	16	43
19	8	10	6	15	7	18	16	24	36	24	18	16	13	17	15	18	14	13	10	7	8	12	29	12	15	36
20	11	20	14	17	28	29	16	32	16	15	15	14	19	17	15	13	12	15	10	7	8	5	10	8	15	32
21	4	8	8	7	7	18	25	32	22	19	17	13	11	12	19	11	14	11	9	8	8	18	15	17	14	32
22	(CM)	18	8	29	16	(CM)	24	31	34	37	37	44	28	27	32	18	23	18	15	13	6	6	23	15	23	44
23	13	9	11	14	7	7	11	35	10	11	14	15	42	12	22	19	14	12	7	14	26	26	22	8	16	42
24	8	27	20	11	10	16	26	27	24	44	38	33	27	24	18	18	16	11	10	7	12	12	13	7	19	44
25	17	14	11	10	5	26	21	10	16	24	26	57	32	15	35	39	23	18	9	5	4	13	8	7	19	57
26	5	5	7	9	13	18	14	25	14	16	15	18	21	20	32	18	15	21	9	18	13	8	9	8	15	32
27	10	9	17	11	7	10	6	15	17	13	13	18	18	19	13	9	9	8	12	17	10	7	9	8	12	19
28	12	8	20	7	5	6	16	16	23	17	21	17	10	8	39	34	23	13	11	23	10	19	20	6	16	39
29	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
30	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
AV	9	10	10	11	10	14	17	22	22	23	21	23	22	18	21	19	16	13	10	10	10	10	12	10	15	57
PK	18	27	20	29	28	29	33	35	45	44	41	57	48	44	40	44	29	21	15	23	26	26	29	21		

SIGMA HORIZ. WIND DIR. @ 30M
DEGREES

CB-TRACT
TRAYLER AA23
JUNE 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
2	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
3	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
4	10	7	6	29	13	10	25	36	20	20	29	26	34	22	24	31	23	16	12	4	8	8	8	16	()	16
5	17	8	6	11	10	11	13	33	20	18	32	27	37	43	23	21	19	15	10	3	4	7	11	16	18	36
6	15	8	9	5	8	11	8	28	10	9	11	13	23	14	16	14	11	8	7	10	14	10	19	12	17	43
7	10	8	16	8	9	8	13	13	9	10	11	12	15	11	12	9	10	9	6	8	8	11	8	8	10	28
8	6	4	3	4	4	4	8	9	11	12	13	11	12	13	12	12	12	9	7	5	4	8	4	5	8	16
9	4	5	6	4	4	30	38	17	14	16	26	18	14	15	12	14	12	9	8	5	9	9	6	8	13	38
10	5	6	12	8	6	28	(CM)	19	24	28	14	15	11	13	13	13	10	10	8	9	14	10	9	7	13	28
11	5	5	6	5	8	13	24	25	28	31	22	25	23	16	15	15	13	10	7	5	4	4	5	6	13	31
12	4	3	4	6	9	38	13	10	12	12	12	13	13	11	11	11	11	9	8	6	4	5	5	7	10	38
13	7	11	18	10	5	6	7	9	26	40	30	26	17	11	10	10	9	12	7	8	10	10	8	6	13	40
14	7	10	9	21	6	21	16	12	14	12	11	17	18	14	38	23	15	11	10	7	6	10	15	8	14	38
15	11	15	7	15	(CM)	8	11	20	37	32	19	22	29	30	20	39	28	20	9	6	28	8	14	(CM)	19	39
16	12	10	24	28	(CM)	14	26	17	34	10	18	16	18	17	14	13	10	10	10	7	7	7	7	8	15	34
17	8	8	8	8	18	24	10	12	28	25	13	13	(PF)	13	11	11	11	9	8	7	6	6	21	19	13	28
18	19	8	7	21	(CM)	21	15	19	17	30	17	29	15	16	22	18	18	13	9	12	16	7	8	14	16	30
19	8	(CM)	14	6	5	3	9	19	39	22	17	14	12	15	14	16	12	11	9	7	12	7	12	28	14	39
20	17	25	16	31	25	21	(CM)	34	15	14	13	14	18	14	14	12	11	14	10	7	8	7	9	6	15	34
21	6	14	9	8	10	12	12	27	18	18	15	12	10	12	18	11	13	11	8	7	6	17	12	14	13	27
22	7	13	7	23	12	(CM)	16	18	21	26	30	42	31	29	29	16	24	14	12	11	3	8	13	22	19	42
23	13	5	8	22	9	6	11	(CM)	9	10	13	14	42	11	25	16	12	10	6	12	25	14	15	9	14	42
24	7	23	17	11	12	23	(CM)	25	22	38	34	27	24	22	18	17	13	10	8	6	12	19	14	19	18	38
25	12	23	16	(CM)	5	24	28	9	15	21	27	52	33	14	30	35	19	17	7	4	3	16	16	5	19	52
26	4	3	6	9	12	18	13	27	12	14	14	16	19	19	31	17	13	17	9	13	13	6	7	8	13	31
27	7	8	12	7	6	9	7	11	15	12	11	18	15	17	12	6	7	7	10	21	7	6	7	6	10	21
28	10	6	21	5	4	8	16	28	21	17	25	16	9	7	39	37	23	12	10	19	10	19	26	4	16	39
29	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
30	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
AV	9	10	11	13	9	15	15	20	20	20	19	20	20	17	19	17	14	12	9	8	9	10	11	11	14	
PK	19	25	24	31	25	38	38	36	39	40	34	52	42	43	39	39	28	20	12	21	28	19	26	28		52

SIGMA HORIZ. WIND DIR. @ 60M
DEGREES

CB-TRACT
TRAILER AA23
JUNE 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
2	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
3	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
4	9	6	4	20	14	6	31	33	19	18	31	22	25	21	22	27	22	14	9	3	4	8	11	7	11	17
5	12	7	6	22	9	10	12	39	17	18	31	26	30	38	24	22	18	13	8	2	4	4	5	5	16	39
6	17	12	10	6	9	26	21	28	10	8	11	11	19	12	16	12	10	6	6	8	13	9	16	12	13	28
7	9	7	10	6	15	10	17	11	8	8	8	10	14	10	11	7	9	7	5	8	7	10	7	6	9	17
8	4	3	3	3	3	4	7	8	9	12	12	11	11	11	13	11	11	8	6	4	2	6	2	3	7	13
9	3	3	3	4	3	28	29	16	13	16	27	17	13	13	10	13	11	10	9	5	8	9	6	8	12	29
10	5	5	9	10	10	7	14	20	30	28	12	13	11	11	12	12	9	9	8	9	14	12	7	7	12	30
11	8	4	9	9	5	5	(CM)	27	37	31	21	27	27	15	13	14	12	9	6	4	2	3	3	3	13	37
12	2	1	1	2	6	18	9	8	11	11	10	12	11	11	10	9	10	8	7	5	3	4	4	6	7	18
13	6	9	13	7	5	6	6	8	19	33	28	27	17	9	10	9	9	10	6	8	12	10	9	7	12	33
14	7	9	8	14	8	12	13	11	13	10	11	15	16	13	34	21	14	10	9	8	7	13	7	16	13	34
15	7	7	8	20	22	5	9	19	37	32	18	18	25	27	19	38	22	19	9	5	8	15	11	13	17	38
16	14	8	13	7	5	11	(CM)	24	34	9	13	15	15	15	12	12	9	9	8	7	5	5	6	6	11	34
17	6	5	6	6	8	19	11	11	30	22	12	11	(PF)	12	11	10	11	7	7	6	6	8	17	28	12	30
18	16	8	12	27	13	12	13	28	16	29	17	29	15	14	23	16	15	12	8	12	19	7	6	6	16	29
19	7	11	17	10	6	4	8	25	40	20	14	12	10	13	12	15	12	9	8	5	5	8	18	10	12	40
20	15	21	10	21	22	32	10	32	14	11	13	12	19	14	12	10	10	12	9	5	5	6	7	11	14	32
21	8	8	16	11	11	11	11	26	19	17	14	11	9	10	16	9	11	9	7	6	4	18	10	11	12	26
22	7	10	7	7	14	18	12	19	19	23	33	45	27	25	33	15	19	15	10	8	4	5	8	11	16	45
23	17	5	24	27	28	7	15	36	8	9	12	14	39	10	25	16	11	8	6	17	24	14	11	18	17	39
24	11	24	8	16	9	12	27	20	20	26	30	26	20	20	15	15	13	8	8	6	10	14	13	11	16	30
25	17	8	9	19	6	23	19	9	12	19	27	48	29	15	28	31	17	16	7	4	3	8	11	5	16	48
26	4	3	6	12	11	16	11	29	11	12	13	14	19	17	28	15	15	18	8	11	14	4	6	6	13	29
27	5	5	8	5	6	9	8	12	14	11	11	16	13	15	11	5	6	6	8	16	6	4	4	5	9	16
28	7	3	16	6	4	15	10	20	25	16	18	14	9	7	36	40	20	11	10	16	7	9	31	3	15	40
29	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
30	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
AV	9	8	9	12	10	13	14	21	19	18	18	19	18	15	18	16	13	10	8	7	8	9	10	9	13	
PK	17	24	24	27	28	32	31	39	40	33	33	48	39	38	36	40	22	19	11	17	24	18	31	28	48	

CR-TRACT
TRAILER AR20
JUNE 1981
OCCIDENTAL OIL SHALE INC.

TEMPERATURE
DEGREE C

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	8	7	7	6	5	5	8	13	18	19	20	21	22	22	22	22	22	22	20	19	15	13	11	9	15	22
2	7	6	6	5	4	4	8	13	18	23	25	26	25	25	25	25	23	21	16	15	13	12	13	12	15	26
3	12	11	10	10	9	8	9	11	12	14	16	13	15	15	15	16	15	15	13	11	11	11	11	11	12	16
4	10	9	8	9	8	7	8	10	14	15	17	18	19	19	19	20	21	21	19	16	13	10	9	8	14	21
5	7	6	6	6	5	5	8	13	17	20	20	21	22	23	24	25	25	25	23	19	15	12	10	10	15	25
6	9	8	7	6	7	7	12	17	24	26	27	27	28	29	28	29	29	28	26	23	20	19	18	19	20	29
7	16	15	14	12	10	11	14	18	24	25	27	28	28	29	30	30	30	30	27	26	23	20	18	15	21	30
8	14	13	14	13	13	12	14	21	26	27	28	28	29	30	30	30	30	30	29	27	21	17	15	15	22	30
9	14	14	14	14	13	13	15	20	25	26	27	27	28	28	28	28	28	26	25	22	21	19	16	12	21	28
10	11	10	10	8	8	8	11	16	22	26	28	30	30	30	31	31	30	28	26	24	21	19	16	15	20	31
11	13	10	8	7	6	6	9	15	19	21	23	26	28	29	30	30	30	30	29	25	18	16	15	15	19	30
12	14	13	13	12	11	11	14	20	24	25	26	27	28	29	29	29	29	28	27	25	19	15	13	12	21	29
13	11	12	13	9	7	8	9	10	12	14	16	18	19	22	23	22	22	20	18	14	11	10	9	7	14	23
14	5	2	0	-1	-2	-2	2	5	5	6	6	8	10	9	11	12	11	10	9	8	6	2	0	-1	5	12
15	-2	-3	-3	-3	-3	-3	1	6	9	11	12	14	15	16	17	17	17	18	16	14	9	6	3	2	8	18
16	1	1	0	-1	-1	-1	3	10	16	19	20	21	22	23	24	24	24	24	23	21	16	13	13	2	13	24
17	18	18	17	15	11	9	12	17	21	22	23	24	25	26	26	26	26	25	24	21	18	15	12	11	19	26
18	9	6	4	3	2	2	5	10	13	17	20	23	25	24	26	26	26	26	24	22	17	13	11	9	15	26
19	8	7	6	6	6	6	9	15	22	24	25	26	27	29	29	29	29	28	28	25	21	17	14	12	19	29
20	10	9	8	7	7	7	12	18	24	27	28	28	29	30	30	30	31	30	28	25	21	17	14	13	20	30
21	12	11	10	9	9	9	12	18	23	25	27	28	29	30	30	30	30	29	28	26	23	18	15	13	21	31
22	11	9	8	7	6	6	10	16	22	25	27	28	30	31	31	31	31	31	29	24	18	15	14	12	20	31
23	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	29	31	29	31	29	31	30	30	30	29	26	23	21	18	15	(	31
24	13	13	13	11	9	8	12	17	22	25	29	31	32	33	33	33	32	31	30	27	23	17	15	13	22	33
25	11	10	9	9	9	11	12	17	22	26	29	32	33	31	32	34	34	33	32	28	21	17	15	15	22	34
26	16	16	17	21	22	21	23	25	27	28	30	31	32	33	33	32	31	31	29	26	17	16	16	16	25	33
27	17	16	14	14	14	15	17	22	25	27	29	29	29	29	27	27	26	23	19	16	16	16	15	15	21	29
28	15	14	14	14	13	13	14	17	18	22	23	24	19	22	26	27	23	18	17	16	16	16	14	13	18	27
29	11	11	11	11	10	9	12	17	21	24	27	28	28	27	27	27	28	28	25	22	19	17	14	13	19	28
30	12	11	12	12	10	9	13	18	24	27	29	29	31	31	31	31	31	29	26	23	20	18	18	17	21	31
AV	11	10	9	9	8	8	11	15	20	22	24	25	26	26	27	27	26	26	24	21	17	15	13	12	18	
PK	18	18	17	21	22	21	23	25	27	29	31	32	33	33	33	34	34	33	32	28	23	21	18	19		
N	-2	-3	-3	-3	-3	-3	1	5	5	6	6	8	10	9	11	12	11	10	9	8	6	2	0	-1	34	

MONTHLY MINIMUM = -3

AV	11	10	9	9	8	8	11	15	20	22	24	25	26	26	27	27	26	26	24	21	17	15	13	12	12	18
PK	18	18	17	21	22	21	23	25	27	29	31	32	33	33	33	34	34	33	32	28	23	21	18	19	34	
MN	-2	-3	-3	-3	-3	-3	1	5	5	6	6	8	10	9	11	12	11	10	9	8	6	2	0	-1	-1	

TEMPERATURE @ 10M
DEGREE C

CR-TRACT
TRAILER AA23
JUNE 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
2	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
3	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
4	8	8	7	7	6	6	7	10	13	14	15	18	19	19	14	14	13	13	12	9	9	9	9	8	14	14
5	9	9	9	8	8	8	11	14	17	18	19	20	22	23	23	20	19	19	18	17	17	14	13	9	13	20
6	12	12	10	11	11	12	14	19	23	24	26	26	28	28	28	28	27	23	22	19	17	14	14	11	13	23
7	15	13	13	13	13	13	16	21	23	24	25	26	28	28	29	28	28	26	24	24	22	21	18	17	16	28
8	19	18	18	17	17	17	21	23	24	26	27	28	28	28	29	29	29	28	27	25	22	21	19	19	21	29
9	19	20	20	18	17	17	19	22	24	25	27	28	28	28	29	29	29	29	28	27	22	19	19	20	23	29
10	13	13	11	11	11	11	13	17	22	26	27	28	28	29	29	29	29	27	24	22	18	16	15	14	22	27
11	12	11	10	9	9	8	11	14	18	21	23	26	28	28	29	29	29	29	28	27	24	21	19	15	13	20
12	21	20	19	18	18	16	18	21	22	23	24	25	26	27	27	27	27	27	25	23	20	20	19	21	20	29
13	19	17	13	12	9	7	7	9	12	14	16	17	19	21	22	22	21	19	16	13	9	8	7	6	14	22
14	4	3	2	0	-1	0	2	3	4	4	5	7	9	7	10	11	9	9	7	6	4	3	2	2	5	11
15	1	-1	-1	-1	-1	-1	3	6	9	11	12	13	14	16	16	17	17	16	15	13	11	9	7	6	9	17
16	4	3	4	3	2	3	6	11	16	17	18	21	22	22	23	23	23	22	21	19	18	17	17	17	15	23
17	17	17	16	15	14	13	15	17	20	22	23	23	(PF)	24	26	25	25	23	22	19	18	16	14	13	19	26
18	11	9	8	8	6	6	7	11	13	16	20	23	24	24	26	26	26	25	23	21	18	17	15	14	17	26
19	13	13	13	12	11	11	13	18	22	24	24	25	26	27	27	28	28	28	27	24	21	19	17	16	20	28
20	15	14	12	12	11	11	16	21	25	26	27	27	28	29	29	29	30	29	28	25	22	19	17	16	20	28
21	18	16	17	17	17	15	17	20	23	25	27	28	28	29	29	29	30	29	28	27	24	22	18	17	22	29
22	16	14	13	13	11	11	14	18	22	24	26	28	29	31	31	30	30	28	27	25	22	20	18	17	22	31
23	16	18	18	17	17	17	18	20	25	28	29	28	31	29	29	29	28	28	27	24	22	22	20	18	23	31
24	17	17	15	14	14	14	16	19	23	26	28	30	31	31	31	31	31	29	29	27	23	21	19	18	23	31
25	17	16	14	14	14	16	15	19	22	26	28	31	33	28	31	32	32	31	29	27	23	22	21	19	23	33
26	22	21	19	19	21	21	22	23	25	26	28	30	32	32	33	32	29	31	29	27	23	22	21	21	23	33
27	14	15	14	14	14	15	16	19	22	25	27	28	29	29	27	26	23	21	17	14	14	13	13	13	19	29
28	13	13	13	12	12	12	13	14	17	21	22	22	17	19	24	27	23	15	14	14	14	13	13	12	16	27
29	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
30	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
AV	14	13	12	12	11	11	13	16	19	21	23	24	25	25	26	26	25	24	22	20	19	16	15	14	19	19
PK	22	21	20	19	21	21	22	23	25	28	29	31	33	32	33	32	32	31	29	27	23	22	21	21	2	33
MIN	1	-1	-1	-1	-1	-1	2	3	4	4	5	7	9	7	10	11	9	9	7	6	4	3	2	2	2	2

MONTHLY MINIMUM = -1

TEMPERATURE ■ 30M
DEGREE C

CB-TRACT
TRAILER AA23
JUNE 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
2	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
3	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
4	8	8	8	7	6	7	8	10	12	13	14	16	17	18	14	14	13	12	12	4	3	9	9	8	()	14
5	9	6	5	3	6	8	9	14	16	17	18	19	21	22	18	18	18	18	18	17	14	14	12	9	()	18
6	13	12	12	12	13	13	15	19	22	23	24	24	26	26	22	22	22	22	21	20	18	16	16	16	()	22
7	15	14	14	14	13	14	16	21	22	23	24	25	26	27	27	27	27	26	24	23	22	19	18	18	()	27
8	20	20	19	19	18	19	21	23	24	25	26	26	27	27	28	28	28	28	27	25	23	23	22	21	()	28
9	21	21	21	19	19	18	19	21	23	24	26	25	26	27	27	28	28	28	24	20	18	17	16	14	()	27
10	14	14	12	11	12	12	13	17	21	25	26	27	27	28	28	28	28	27	24	22	19	17	15	14	()	28
11	12	12	11	11	10	9	12	14	17	19	22	24	25	26	26	26	27	26	25	23	21	21	22	21	()	29
12	21	21	20	19	18	17	19	21	22	22	23	24	25	26	26	26	27	26	25	23	21	21	22	20	()	28
13	19	17	13	12	9	7	7	8	11	13	14	16	18	19	20	20	20	19	16	13	8	7	7	6	()	27
14	4	3	2	1	1	1	2	3	3	4	4	6	8	7	9	10	8	8	7	6	5	3	2	2	()	10
15	2	1	1	1	-1	1	3	6	8	9	11	12	13	14	14	15	16	16	14	13	11	9	8	7	()	16
16	5	4	6	4	3	4	7	11	14	16	17	19	20	21	21	22	22	22	21	19	18	17	17	17	()	22
17	17	17	17	16	14	14	16	17	19	21	22	23	(PF)	24	24	24	24	23	22	19	17	16	14	13	()	19
18	12	10	9	8	6	6	8	11	13	16	18	21	23	23	24	25	24	24	22	21	19	18	16	16	()	25
19	14	13	13	13	13	14	15	18	21	23	24	24	26	26	26	27	27	27	26	24	22	19	18	17	()	27
20	16	16	13	12	12	14	17	21	23	24	26	26	27	28	28	28	28	29	29	25	22	21	19	18	()	29
21	19	18	17	17	17	16	18	19	22	24	26	27	27	28	28	29	29	28	26	24	22	20	19	18	()	28
22	16	14	14	14	12	12	14	18	21	23	24	26	27	28	29	30	29	28	28	26	23	22	19	18	()	29
23	17	19	19	18	18	18	18	21	22	24	27	28	29	29	30	30	29	28	26	24	23	23	21	19	()	29
24	18	18	17	16	14	16	17	19	22	24	27	28	29	29	30	30	30	29	29	26	24	22	20	18	()	30
25	17	16	15	14	16	17	16	18	21	24	27	29	31	28	30	31	31	31	29	27	25	24	21	19	()	31
26	22	22	20	19	21	21	21	23	24	26	27	28	29	31	31	31	28	29	26	23	14	13	13	13	()	31
27	15	16	16	14	16	16	16	19	22	24	26	27	27	28	26	25	23	21	16	13	14	13	13	13	()	28
28	13	13	13	13	13	13	14	14	16	19	21	21	17	19	23	24	22	14	15	14	15	14	13	12	()	24
29	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
30	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
AV	14	14	13	12	12	12	14	16	18	20	22	23	24	24	25	25	24	24	22	20	18	17	16	15	19	
PK	22	22	21	19	21	21	21	23	25	27	28	29	31	31	31	31	31	30	29	27	25	24	22	22		31
MIN	2	1	1	1	-1	1	2	3	3	4	4	6	8	7	9	10	8	8	7	4	3	3	2	2		

MONTHLY MINIMUM = -1

TEMPERATURE 60M
DEGREE C

CB-TRACT
TRAILER AA23
JUNE 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
2	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
3	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
4	8	8	8	7	6	7	8	10	12	14	16	17	18	18	14	14	13	12	12	16	14	10	9	9	9	14
5	11	11	11	10	9	10	12	14	17	18	19	20	21	22	18	19	19	19	18	16	14	10	9	9	11	13
6	14	14	13	13	13	14	16	19	22	23	24	24	26	26	27	27	26	25	24	23	18	17	16	16	17	23
7	15	15	14	15	14	15	17	21	23	23	24	26	26	27	27	27	27	26	25	24	23	19	18	18	20	27
8	21	20	19	19	19	19	21	23	24	24	25	26	27	27	28	28	28	27	27	26	24	22	23	22	21	22
9	22	21	21	20	19	18	19	21	23	24	26	26	27	27	28	28	28	27	27	26	19	18	17	16	14	22
10	14	14	12	11	11	12	14	17	21	25	26	27	27	28	28	28	28	27	24	21	18	17	14	13	20	28
11	12	11	11	11	10	10	12	14	17	20	23	25	26	27	28	28	28	28	27	25	23	22	22	22	20	28
12	22	22	21	20	19	17	19	21	22	23	23	24	25	26	26	27	26	26	25	23	22	21	21	21	21	27
13	20	17	13	12	9	7	7	8	11	13	15	17	18	19	20	20	19	19	16	13	9	7	7	7	5	13
14	3	3	2	1	1	1	2	3	3	4	4	6	8	7	9	10	8	8	7	6	4	3	2	2	4	10
15	2	1	1	1	-1	1	3	6	8	9	11	12	13	14	15	16	16	15	14	13	11	9	8	6	8	16
16	6	6	6	5	4	5	7	11	15	16	17	19	20	21	22	22	22	22	21	19	18	17	17	17	15	22
17	17	17	16	16	15	14	16	17	19	21	21	22	(PF)	24	24	24	24	23	22	19	17	16	14	13	19	24
18	11	10	8	8	7	7	9	12	13	16	18	21	22	23	24	24	24	24	22	21	19	18	17	16	16	24
19	15	14	13	13	13	14	16	18	21	22	23	24	25	26	26	27	27	27	26	24	22	20	18	17	20	27
20	16	15	14	13	13	14	18	21	23	24	26	26	27	27	28	28	28	28	27	24	23	21	20	18	22	28
21	19	19	18	17	17	17	18	20	22	24	26	26	27	28	28	28	28	27	26	23	22	21	19	18	22	28
22	16	14	14	14	12	12	16	18	21	23	25	27	27	28	29	29	29	28	28	26	23	22	21	20	22	29
23	18	18	17	16	14	16	17	19	22	24	27	29	30	31	30	30	29	29	28	24	23	22	21	19	24	29
24	18	18	17	16	14	16	17	19	22	24	27	29	30	31	30	32	31	31	29	26	23	21	20	19	23	31
25	18	17	16	15	16	18	17	18	22	25	28	29	31	28	30	32	31	31	29	27	25	24	22	23	24	32
26	22	22	21	19	21	21	21	23	24	26	27	28	29	30	31	30	29	30	26	22	13	13	14	16	13	31
27	16	16	16	15	16	16	17	19	23	25	26	27	27	28	26	24	23	20	16	13	14	13	12	13	19	28
28	14	13	13	13	13	13	14	15	17	19	20	22	17	20	23	24	22	14	16	15	15	14	13	13	16	24
29	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
30	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()

MONTHLY MINIMUM = -1

AV	15	14	13	13	12	13	14	16	19	21	22	23	24	24	25	25	24	23	22	20	18	17	16	15	19	
PK	22	22	21	20	21	21	21	23	26	27	28	29	31	31	31	32	31	31	29	27	25	24	23	23		32
HN	2	1	1	1	-1	1	2	3	3	4	4	6	8	7	9	10	8	8	7	6	4	3	2	2		

TEMPERATURE @10M

C-B TRACT
MRI AD42
June, 1981

DATA NOT AVAILABLE AT REPORT TIME

TEMPERATURE @10M

C-B TRACT
MRI AD56
June, 1981

DATA NOT AVAILABLE AT REPORT TIME

DELTA TEMPERATURE 60-10M
DEGREE C*100

CR-TRACT
TRAILER AA23
JUNE 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()	
2	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()	
3	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	33	
4	-44	-28	-33	-61	-144	61	78	-17	-16	50	6	-122	-61	-67	-67	-100	-17	-6	-22	-61	28	28	100	-20	100	
5	117	67	100	139	67	161	161	-6	-56	-6	-22	-22	-100	-89	-72	-11	-6	-44	6	-56	94	144	144	244	40	244
6	183	183	211	156	183	211	217	17	-78	-94	-89	-111	-156	-117	-122	-122	-83	-44	-11	-6	0	150	0	6	20	217
7	-39	83	28	94	144	206	144	-17	-56	-67	-89	-94	-133	-122	-139	-83	-78	-28	39	22	100	172	67	117	11	206
8	133	167	189	183	194	150	33	-61	-72	-117	-144	-133	-111	-117	-128	-106	-89	-50	-22	72	211	272	306	244	42	306
9	239	139	117	156	200	144	72	-28	-22	-50	-100	-72	-89	-72	-72	-78	-44	-83	-50	-78	-17	44	56	56	15	239
10	89	117	83	17	0	94	61	-67	-89	-111	-139	-172	-128	-122	-122	-133	-94	-39	-50	-67	-83	-61	-56	-61	-47	117
11	-33	-11	39	67	111	156	50	-39	-78	-22	-67	-83	-150	-133	-111	-117	-100	-67	-28	94	294	311	183	156	18	311
12	128	183	217	206	100	133	56	-39	-56	-67	-83	-94	-117	-106	-83	-78	-89	-61	-33	28	156	144	117	100	28	217
13	56	39	-17	0	-22	-67	-56	-44	-61	-128	-89	-28	-111	-128	-117	-133	-117	-78	-78	-94	-72	-78	-83	-50	-65	56
14	-61	-61	-11	61	28	72	-22	-72	-78	-72	-83	-106	-100	-28	-106	-72	-83	-78	-133	-72	-39	-22	-50	-44	-54	50
15	39	133	111	61	28	72	6	-39	-67	-122	-78	-133	-167	-106	-72	-106	-94	-67	-67	-61	-33	-100	28	56	-32	133
16	128	150	122	122	167	150	100	-28	-78	-111	-139	-183	-139	-89	-111	-122	-83	-72	-33	-17	22	33	22	0	-8	167
17	6	11	17	61	94	83	39	-39	-100	-117	-78	-61	(PF)	-61	-56	-56	-50	-67	-61	-39	-39	-28	-11	33	-22	94
18	28	61	0	44	100	94	167	78	-11	-39	-89	-156	-117	-44	-106	-94	-111	-72	-17	-50	67	78	172	183	7	183
19	122	133	0	56	139	300	283	33	-89	-83	-61	-61	-56	-100	-117	-133	-94	-61	-56	-56	-6	56	11	61	9	300
20	28	39	183	106	117	194	250	44	-100	-72	-111	-72	-89	-133	-111	-106	-111	-61	-44	-44	72	156	122	67	13	250
21	128	250	50	-44	28	211	167	-6	-61	-56	-67	-89	-56	-50	-83	-39	-72	-61	-56	-44	11	256	228	56	8	250
22	28	28	67	139	150	117	139	-33	-78	-22	-67	-150	-156	-117	-111	-67	-67	-67	-33	11	111	256	228	272	24	272
23	150	100	200	156	61	167	228	150	11	-78	-111	-72	-133	-56	-56	-61	-67	-61	-33	44	56	6	61	50	30	228
24	128	133	167	122	67	117	172	11	-72	-83	-56	-117	-78	-50	-89	-100	-89	-72	-56	-11	-22	17	44	94	7	172
25	67	133	156	122	28	200	144	-22	-33	-61	-72	-122	-106	-72	-56	-39	-94	-22	-56	33	200	250	139	206	40	250
26	89	94	78	50	-17	-17	-44	-67	-61	-72	-122	-200	-183	-111	-172	-161	-28	-50	-50	-100	-22	-6	67	67	-46	94
27	94	94	89	89	94	67	100	11	-11	-39	-100	-122	-150	-100	-89	-89	-72	-122	-139	-33	17	-17	-22	11	-18	100
28	44	44	39	44	67	94	83	39	17	-106	-117	-78	133	61	-39	-122	-56	-122	133	67	50	11	17	78	16	133
29	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()	
30	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()	
AV	74	91	88	83	80	126	105	-10	-56	-70	-85	-106	-106	-81	-94	-92	-75	-63	-40	-28	30	70	60	80	1	
PK	239	250	217	206	200	300	283	150	17	50	6	-22	133	61	-28	-11	-6	-6	133	94	294	311	306	272		311
MM	-61	-61	-33	-61	-144	-67	-56	-72	-100	-128	-144	-200	-183	-133	-172	-161	-117	-122	-139	-217	-383	-100	-83	-61		

MONTHLY MINIMUM = -383

RELATIVE HUMIDITY @ 3M
PERCENT

CR-TRACT
TRAILER AA23
JUNF 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	79	79	79	79	78	76	76	70	60	50	47	46	46	45	46	46	46	48	49	52	56	59	63	68	60	79
2	70	70	70	74	75	75	75	65	55	47	45	45	45	45	45	45	45	45	50	65	67	74	76	75	60	76
3	76	80	85	85	85	85	85	85	85	80	70	68	72	65	64	64	60	62	66	65	79	81	82	82	75	85
4	82	82	84	84	84	84	84	84	75	65	55	52	50	47	46	46	45	45	45	46	48	59	63	65	63	84
5	67	73	74	73	74	75	76	73	65	50	49	48	47	46	46	46	46	46	46	47	52	55	59	60	58	76
6	63	63	65	65	65	66	66	60	46	46	46	45	45	45	45	44	44	44	44	45	45	53	53	53	52	66
7	65	69	68	68	67	68	65	52	46	46	45	44	44	43	43	43	43	43	44	44	44	45	45	46	51	69
8	46	46	46	46	46	46	45	44	44	44	44	44	44	44	44	43	43	43	44	44	44	48	49	49	45	49
9	48	48	48	47	49	50	51	50	47	46	45	45	45	45	45	45	45	45	50	55	60	65	71	71	51	71
10	71	74	76	77	80	81	78	65	59	50	45	45	44	44	44	44	44	44	44	45	50	50	60	62	57	81
11	65	69	71	74	75	75	75	69	60	55	52	49	47	44	44	44	44	44	44	44	44	44	44	44	55	75
12	44	44	44	45	46	46	47	49	45	45	45	45	44	44	44	44	44	44	44	45	45	45	45	46	45	49
13	45	45	46	54	69	70	74	74	70	65	60	56	54	47	44	45	44	44	44	46	47	51	54	53	54	74
14	56	60	65	70	71	75	76	72	72	71	71	69	68	59	62	55	50	48	48	51	54	56	61	65	63	76
15	67	70	72	74	76	79	79	75	66	60	55	52	48	46	46	45	45	44	43	44	44	44	47	48	57	79
16	49	51	55	56	57	59	62	60	55	47	45	45	45	45	45	45	45	45	45	45	45	45	45	45	49	62
17	45	45	45	45	45	45	45	46	46	46	46	45	45	45	45	45	45	45	45	45	45	45	45	45	45	46
18	46	47	50	52	55	56	57	59	58	53	50	49	46	46	45	45	45	45	45	45	45	47	50	52	50	59
19	52	54	54	55	57	59	61	62	59	51	48	42	41	41	45	45	45	45	45	45	45	47	49	50	62	68
20	53	56	60	61	66	67	67	68	65	58	50	48	47	46	46	46	45	45	45	45	46	47	49	50	53	68
21	50	51	54	54	54	55	56	59	58	53	50	48	45	45	45	45	45	45	45	45	46	47	49	51	50	59
22	53	56	58	60	61	64	66	66	63	55	49	47	45	45	45	45	45	45	45	45	45	46	47	48	50	66
23	50	51	52	51	51	51	51	51	52	52	46	45	45	45	45	45	45	45	45	45	45	46	47	48	52	66
24	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	52
25	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
26	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
27	73	72	69	68	71	71	69	69	61	53	45	44	43	43	45	44	44	45	45	47	66	83	83	82	()	83
28	83	78	79	77	79	81	80	81	79	78	60	56	54	72	77	50	45	50	80	78	78	81	82	83	61	83
29	75	75	73	74	75	78	79	75	77	58	50	47	44	44	43	45	45	44	44	47	52	54	58	62	59	79
30	63	65	65	65	65	67	69	68	63	56	46	45	44	44	43	43	43	43	43	44	50	52	50	52	54	69
AV	61	62	63	64	66	67	67	65	60	55	50	49	48	47	47	46	45	46	47	50	53	55	57	58	55	55
PK	83	82	85	85	85	85	85	85	85	80	71	69	72	72	77	64	60	62	80	78	79	83	83	83	83	85
MN	44	44	44	45	45	45	45	44	44	44	44	42	41	41	43	43	43	43	43	44	44	44	44	44	44	44

MONTHLY MINIMUM = 41

SOLAR RADIATION
LANGLEY

CR-TRACT
TRAILER AR23
JUNE 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TL PEAK
1	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	0 ()	
2	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	0 ()	
3	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	0 ()	
4	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	0 ()	
5	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	0 ()	
6	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	0 ()	
7	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	0 ()	
8	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	0 ()	
9	0	0	0	0	0	7	20	36	50	58	63	49	71	74	67	49	34	23	10	1	0	0	0	257	74
10	0	0	0	0	-0	7	20	36	50	62	74	80	73	76	59	43	25	16	8	0	0	0	0	578	74
11	0	0	0	0	0	7	20	35	50	64	73	72	80	76	68	56	42	26	11	0	0	0	0	651	80
12	0	0	0	0	0	7	22	37	52	65	76	80	82	78	70	56	42	26	11	0	0	0	0	680	80
13	0	0	0	0	0	6	20	35	50	64	73	66	64	77	68	56	41	22	5	0	0	0	0	704	82
14	0	0	0	0	0	7	22	24	22	27	26	43	52	46	70	46	22	21	6	1	0	0	0	647	77
15	0	0	0	0	0	6	21	35	53	61	76	80	82	77	69	58	40	26	11	1	0	0	0	436	70
16	0	0	0	0	0	7	22	38	52	67	77	81	81	77	70	57	43	26	9	2	0	0	0	695	82
17	0	0	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	77	67	55	37	25	8	0	0	0	0	270	77
18	0	0	0	0	0	4	14	25	24	34	63	71	65	68	61	55	41	23	7	1	0	0	0	557	71
19	0	0	0	0	0	6	21	34	51	64	74	79	80	76	59	49	37	26	10	1	0	0	0	665	80
20	0	0	0	0	0	7	21	36	49	51	58	47	72	54	59	38	43	30	11	0	0	0	0	576	72
21	0	0	0	0	0	7	20	35	50	64	71	76	78	70	65	55	41	26	11	1	0	0	0	670	78
22	0	0	0	0	0	7	22	37	52	65	74	80	80	76	68	57	42	26	10	0	0	0	0	696	80
23	0	0	0	0	0	3	10	14	40	56	67	45	59	48	36	31	15	16	5	1	0	0	0	445	67
24	0	0	0	0	0	6	20	35	50	63	73	77	79	76	64	55	41	25	10	1	0	0	0	673	79
25	0	0	0	0	0	7	20	36	50	64	73	77	68	19	49	47	41	25	10	0	0	0	0	586	77
26	0	0	0	0	0	5	19	36	50	62	71	77	78	76	70	50	34	31	7	0	0	0	0	665	78
27	0	0	0	0	0	4	16	28	42	62	73	74	58	79	24	37	14	6	1	1	0	0	0	518	79
28	0	0	0	0	0	2	6	10	28	57	31	68	6	54	68	56	14	1	0	0	0	0	0	401	68
29	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	0 ()	
30	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	0 ()	
TL	0	0	0	0	0	110	356	601	865	1111	1265	1323	1309	1428	1299	1060	731	455	160	7	0	0	0	0	0
PK	0	0	0	0	0	7	22	38	53	67	77	81	82	79	70	58	43	31	11	2	0	0	0	0	82

BAROMETRIC PRESSURE
MILLIBARS

CR-TRACT
TRAILER AB23
JUNE 1981
OCCIDENTAL OIL SHALE INC.

hour (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
2	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
3	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
4	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
5	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
6	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
7	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
8	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
9	785	785	785	785	785	786	786	787	786	786	788	788	782	781	781	782	782	782	787	786	786	786	786	786	()	788
10	783	783	782	782	782	782	783	782	782	782	786	786	782	781	780	780	780	780	779	781	781	782	782	782	783	784
11	782	782	782	782	782	782	783	783	783	784	784	783	782	781	780	780	780	780	779	779	779	779	779	779	779	784
12	779	779	779	779	779	779	780	780	780	780	783	783	784	784	783	783	782	782	782	782	782	782	782	782	782	784
13	781	782	782	783	784	784	785	785	785	785	785	784	783	783	783	782	782	782	782	782	782	784	784	784	784	785
14	784	784	784	785	785	785	786	786	786	787	787	787	787	788	788	788	788	788	789	789	790	791	791	791	791	791
15	791	791	792	792	793	793	793	793	792	792	793	792	792	790	790	790	790	789	789	789	790	790	790	790	790	791
16	791	791	791	791	791	791	791	791	791	792	792	792	792	789	788	788	786	786	786	785	785	785	785	785	784	789
17	784	784	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	785	786	787	787	788	788	788	789	789	789	789	787	789
18	789	789	789	789	789	789	790	790	791	791	790	790	789	789	789	788	788	788	788	788	788	788	788	788	788	791
19	788	788	788	788	788	788	789	789	790	790	789	789	789	789	788	788	788	788	788	788	789	789	789	789	789	790
20	789	789	789	788	788	788	788	788	789	789	789	789	789	789	788	788	787	787	787	787	787	787	787	787	788	789
21	787	787	787	787	787	787	788	788	788	788	789	789	789	789	788	788	788	788	788	789	789	789	789	789	788	790
22	790	790	790	790	790	790	791	791	791	791	792	791	791	791	790	790	790	789	789	789	788	788	788	788	788	792
23	788	787	787	788	788	787	788	788	788	788	788	789	788	788	787	787	787	787	787	787	787	788	788	788	788	790
24	789	789	789	789	789	790	790	791	791	791	791	791	791	791	791	791	791	791	791	791	791	791	791	791	791	792
25	796	796	796	796	797	797	797	797	798	798	798	797	797	797	797	797	797	797	797	797	797	797	797	797	796	796
26	791	791	792	792	792	792	792	793	793	793	792	792	792	792	792	792	791	791	791	791	791	791	791	791	791	793
27	789	790	790	789	790	790	789	789	789	788	788	788	787	786	785	785	785	785	786	786	788	788	788	787	788	790
28	787	787	787	787	787	787	787	787	787	787	787	787	786	786	785	784	784	784	786	786	786	786	786	787	787	787
29	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
30	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()

MONTHLY MINIMUM = 779

AV	787	787	787	787	788	788	788	788	788	789	789	789	788	787	787	787	786	786	786	787	787	787	787	787	787	787
PK	796	796	796	796	797	797	797	797	798	798	798	797	794	794	794	794	794	794	794	794	795	795	795	796	796	796
MN	779	779	779	779	779	779	780	780	782	782	783	782	782	781	780	780	779	779	779	779	779	779	779	779	779	779

PRECIPITATION
CMs100

CR-TRACT
TRAILER AR20
JUNE 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TL	PEAK
1																										
2																										
3	8	43	3									23							10	8	(TR)	(TR)	3			
4																										
5																										
6																										
7																										
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27																										
28																										
29																										
30																										
TL	13	43	3	()	()	3	()	()	()	()	()	23	()	()	()	()	()	()	10	18	25	46	8	23	213	
PK	8	43	3			3						23							10	10	18	41	5	13	43	

PRECIPITATION
CM*100

CB-TRACT
TRAILER AR23
JUNE 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TL	PEAK	
1																									()		
2																								76	76	76	
3							3											10							13	10	
4																									()		
5																									()		
6																									()		
7																									()		
8																									()		
9																									()		
10																									()		
11																									()		
12																									()		
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15																									()		
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17																									()		
18																									()		
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22																									()		
23																									()		
24																									()		
25																									()		
26																									()		
27																									()		
28	8						3							38			13	94				10	25	23	5	63	25
29																					8		8	15	30	15	
30																									155	94	
TL	8	()	()	()	()	()	5	()	()	()	()	()	()	38	()	()	()	23	94	()	18	25	30	97	338	94	
PK	8						3							38			13	94			10	25	23	76			

EVAPORATION

C-B TRACT
TRAILER AB23
June, 1981

NOT OPERATIONAL

INVERSION HEIGHT
METERS

CB-TRACT
TRAILER AC20
JUNE 1981
OCCIDENTAL OIL SHALE INC.

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
AV	393	435	441	449	470	465	406	316	205	()	()	()	()	()	()	()	()	()	()	195	296	343	371	362	365	725
PK	610	725	670	600	605	680	620	535	480	295	270	520	250	390	240	200	225	305	355	470	520	560	600	525		

STABILITY CLASS # 50M
0=STR 1=UNST

CR-TRACT
TRAILER AC20
JUNE 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	PREV
1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PV	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0

STABILITY CLASS @ 200M
0=STR 1=UNST

CR-TRACT
TRAILER AC20
JUNE 1981
OCCIDENTAL OIL SHALE INC.

DAY	HOUR (LOCAL STANDARD TIME)																								PREV
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
6	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
7	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
8	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
11	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
12	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
13	0	0	0	0	0	0	0	1	1	1	1	0	1	1	1	1	1	1	1	1	0	0	0	0	0
14	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
15	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
16	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
17	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
18	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
19	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
20	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
21	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
22	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
23	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
24	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
25	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
26	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
27	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
28	0	0	0	0	0	0	0	0	1	1	1	1	0	1	1	1	1	1	1	1	0	0	0	0	0
29	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
30	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
PV	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0

STABILITY CLASS USING DT/DZ
DT 60-10M
WS 10M

CR-TRACT
TRAILER AA23
JUNE 1981
OCCIDENTAL OIL SHALE, INC.

		HOUR (LOCAL STANDARD TIME)																								
DAY		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE
1	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
2	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
3	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
4	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
5	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
6	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
7	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
8	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
9	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
10	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
11	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
12	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
13	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
14	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
15	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
16	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
17	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
18	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
19	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
20	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
21	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
22	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
23	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
24	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
25	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
26	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
27	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
28	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
29	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
30	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
AVE																										

TOTAL OCCURRENCES: A= 19 R= 69 C= 36 D=204 E=173 F=104 HOURS MISSING=115

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

C-B SHALE OIL PROJECT

NITRIC OXIDE (NO)

PERIOD(6/01/81 TO 6/30/81)

TRAILER AB20

CONCENTRATION MAX UG/M**3	WIND DIRECTION																	TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	
GT 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20. - 30. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10. - 20. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LT 10. :	13	16	19	12	53	163	126	6	14	22	27	41	108	49	10	0	0	711
TOTAL :	13	16	19	12	53	163	126	6	14	22	27	41	108	49	10	0	0	711
MEAN CONC.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

NITRIC OXIDE (NO)

C-B SHALE OIL PROJECT

PERIOD(6/01/81 TO 6/30/81)

TRAILER AB23

CONCENTRATION MAX UG/M**3	WIND DIRECTION										NW				NNW		CALM		TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL	
GT 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	3
20. - 30. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
10. - 20. :	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	3
LT 10. :	17	5	9	6	13	14	14	15	26	58	73	24	22	39	26	17	2	2	380
TOTAL :	18	5	9	6	14	14	14	15	26	58	73	24	22	39	32	18	2	2	389
MEAN CONC.	2	0	4	3	3	2	2	2	2	1	1	2	3	4	8	4	1	1	3

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

OXIDES OF NITROGEN (NOX)

C-B SHALE OIL PROJECT

PERIOD(6/01/81 TO 6/30/81)

TRAILER AB20

CONCENTRATION MAX UG/M**3	WIND DIRECTION																NW	NNW	CALM	TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW						
GT 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20. - 30. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10. - 20. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
LT 10. :	13	16	19	12	53	163	126	6	14	22	32	27	41	108	49	10	0	0	711	
TOTAL :	13	16	19	12	53	163	126	6	14	22	32	27	41	108	49	10	0	0	711	
MEAN CONC.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

OXIDES OF NITROGEN (NOx)

C-B SHALE OIL PROJECT

		PERIOD(6/01/81 TO 6/30/81)																	
		TRAILER AB23							WIND DIRECTION										
		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
		30	0	16	16	30	37	1	15	16	16	15	20	26	30	152	92	13	
CONCENTRATION																			
MAX																			
UG/M**3																			
GT 130.	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0 :	1
120. - 130.	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
110. - 120.	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
100. - 110.	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0 :	1
90. - 100.	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0 :	1
80. - 90.	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
70. - 80.	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0 :	2
60. - 70.	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
50. - 60.	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0 :	1
40. - 50.	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
30. - 40.	:	1	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0 :	4
20. - 30.	:	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0 :	2
10. - 20.	:	0	0	3	2	1	0	0	2	1	1	5	2	2	6	7	3	1 :	36
LT 10.	:	17	5	6	4	12	13	14	13	25	57	68	21	19	32	20	14	1 :	341
TOTAL	:	18	5	9	6	14	14	14	15	26	58	73	24	22	39	32	18	2	389
MEAN CONC.		2	0	5	4	3	3	0	2	1	0	1	2	3	4	19	9	6	4

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

C-B SHALE OIL PROJECT

NITROGEN DIOXIDE (NO2)

PERIOD(6/01/81 TO 6/30/81)

TRAILER AB20

CONCENTRATION MAX UG/M**3	WIND DIRECTION												NW	NNW	CALM	TOTAL	
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW					
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

GT 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20. - 30. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10. - 20. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LT 10. :	13	16	19	12	53	163	126	6	14	22	32	27	41	108	49	10	0	0	0	0	0	0	0	0	711
TOTAL :	13	16	19	12	53	163	126	6	14	22	32	27	41	108	49	10	0	0	0	0	0	0	0	0	711
MEAN CONC.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

NITROGEN DIOXIDE (NO2)

C-B SHALE OIL PROJECT

PERIOD(6/01/81 TO 6/30/81)

TRAILER AB23

WIND DIRECTION

CONCENTRATION MAX UG/M**3	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
7	0	0	3	9	11	31	0	13	7	9	7	16	16	18	45	31	9	
GT 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
30. - 40. :	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0	3
20. - 30. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
10. - 20. :	0	0	0	0	1	0	0	1	0	0	0	1	2	1	2	0	0	8
LT 10. :	18	5	9	6	13	13	14	14	26	58	73	23	20	38	26	17	2	375
TOTAL :	18	5	9	6	14	14	14	15	26	58	73	24	22	39	32	18	2	389
MEAN CONC.	0	0	1	1	0	2	0	1	0	0	0	0	1	0	6	3	4	1

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

OZONE (03)

C-B SHALE OIL PROJECT

PERIOD(6/01/81 TO 6/30/81)

TRAILER AB20

WIND DIRECTION

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
CONCENTRATION	113	111	115	99	107	115	113	109	109	117	117	141	133	115	119	105	0	
MAX																		
UG/M**3																		

GT 260. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
240. - 260. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
220. - 240. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200. - 220. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180. - 200. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160. - 180. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140. - 160. :	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
120. - 140. :	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	3
100. - 120. :	3	3	1	0	3	3	6	3	7	8	3	8	11	34	16	1	0	110
80. - 100. :	6	4	4	4	11	15	14	2	6	10	21	14	21	49	18	4	0	203
60. - 80. :	3	6	7	4	15	41	22	1	1	4	8	2	8	24	9	5	0	160
40. - 60. :	1	1	5	2	21	83	67	0	0	0	0	0	0	0	4	0	0	184
20. - 40. :	0	2	2	2	3	21	17	0	0	0	0	0	0	0	2	0	0	49
LT 20. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL :	13	16	19	12	53	163	126	6	14	22	32	27	41	107	49	10	0	710
MEAN CONC.	85	76	68	69	65	57	57	96	96	95	87	99	94	90	87	85	0	74

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

OZONE (03)

C-B SHALE OIL PROJECT

TRAILER AB23 PERIOD(6/01/81 TO 6/30/81)

WIND DIRECTION

CONCENTRATION
MAX
UG/M**3

WIND DIRECTION		WIND VELOCITY															
N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
121	117	101	113	105	107	92	111	105	113	131	133	119	113	119	127	90	
121	117	101	113	105	107	92	111	105	113	131	133	119	113	119	127	90	

[illegible]

U = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

CARBON MONOXIDE (CO)

C-B SHALE OIL PROJECT

PERIOD(6/01/81 TO 6/30/81)

TRAILER AB20

WIND DIRECTION

CONCENTRATION MAX UG/M**3	WIND DIRECTION												W				NW				NNW				CALM	TOTAL								
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL																
GT 4000. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3750. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3500. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3250. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3000. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2750. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2500. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2250. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2000. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1750. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1500. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1250. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1000. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
LT 1000. :	13	16	19	10	51	157	122	6	12	22	32	26	41	108	49	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	694
TOTAL :	13	16	19	10	51	157	122	6	12	22	32	26	41	108	49	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	694	0
MEAN	0	0	0	0	1	1	0	2	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

CARBON MONOXIDE (CO)

C-B SHALE OIL PROJECT

PERIOD(6/01/81 TO 6/30/81)

TRAILER AB23

WIND DIRECTION

S SSW SW WSW W WNW NW NNW CALM TOTAL

CONCENTRATION

MAX
UG/M**3

218 68 57 80 68 0 103 0 80 425 413 379 356 172 344 287 80

GT 4000.

3750.

3500.

3250.

3000.

2750.

2500.

2250.

2000.

1750.

1500.

1250.

1000.

LT 1000.

TOTAL

MEAN
CONC.

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

C-B SHALE OIL PROJECT

SULFUR DIOXIDE (SO2)

PERIOD(6/01/81 TO 6/30/81)

TRAILER AB20

CONCENTRATION MAX UG/M**3	WIND DIRECTION																NNW	CALM	TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW				
GT 130. :	7	7	7	7	7	10	7	7	7	7	7	7	7	7	7	7	0		
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20. - 30. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10. - 20. :	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
LT 10. :	13	14	18	10	50	140	115	5	13	21	31	23	39	93	39	10	0	634	
TOTAL :	13	14	18	10	50	141	115	5	13	21	31	23	39	93	39	10	0	635	
MEAN CONC.	7	6	7	6	5	6	6	4	6	7	7	7	5	7	7	7	0	6	

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

C-B SHALE OIL PROJECT

SULFUR DIOXIDE (SO2)

PERIOD(6/01/81 TO 6/30/81)

TRAILER AB23

CONCENTRATION MAX UG/M**3	N	NNE	NE	ENE	E	ESE	SE	SSE	WIND DIRECTION				WSW	W	WNW	NW	NNW	CALM	TOTAL
									S	SSW	SSW	SSW							
GT 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20. - 30. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10. - 20. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LT 10. :	27	13	15	7	17	13	12	15	22	64	121	31	32	41	45	32	4	511	
TOTAL :	27	13	15	7	17	13	12	15	22	64	121	31	32	41	45	32	4	511	
MEAN CONC.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	

U = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

HYDROGEN SULFIDE (H2S)

C-B SHALE OIL PROJECT

PERIOD(6/01/81 TO 6/30/81)

TRAILER AB23

CONCENTRATION MAX UG/M**3	WIND DIRECTION										NW				CALM				TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	NW	CALM	TOTAL
GT 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20. - 30. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10. - 20. :	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
LT 10. :	19	11	15	7	16	13	11	15	21	55	104	26	28	36	33	26	4	440	
TOTAL :	19	11	15	7	16	13	11	15	21	55	105	26	28	36	33	26	4	441	
MEAN CONC.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0

0 = NO OBSERVATIONS

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

10 METER LEVEL

C-B SHALE OIL PROJECT

STATION AB20 PERIOD(6/01/81 TO 6/30/81)

WIND DIRECTION

WIND SPEED MAX METERS/SEC	WIND DIRECTION																NNW	VAR	TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW			

GT 11. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8. - 11. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5. - 8. :	0	0	0	0	0	2	0	1	2	0	0	3	7	14	0	0	0	0	29
3. - 5. :	2	1	0	0	3	8	18	1	7	13	21	18	11	39	19	1	0	0	162
1. - 3. :	7	10	11	7	29	117	72	2	3	9	10	4	21	49	23	8	0	0	382
LT 1. :	4	5	8	5	21	36	36	2	2	0	1	2	2	6	7	1	0	0	138
TOTAL :	13	16	19	12	53	163	126	6	14	22	32	27	41	108	49	10	0	0	711
PERCENT	2.	2.	3.	2.	7.	23.	18.	1.	2.	3.	5.	4.	6.	15.	7.	1.	0.	0.	100.

0 = NO OBSERVATIONS

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

10 METER LEVEL

C-B SHALE OIL PROJECT

STATION AA23 PERIOD(6/01/81 TO 6/30/81)

WIND DIRECTION

WIND SPEED MAX METERS/SEC	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	TOTAL
4	3	3	3	3	3	4	5	4	6	9	9	9	6	7	5	4	0	

GT 11. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
8. - 11. :	0	0	0	0	0	0	0	0	0	6	3	3	0	0	0	0	0 :	12
5. - 8. :	0	0	0	0	0	0	1	0	2	13	38	9	3	17	4	0	0 :	87
3. - 5. :	4	2	1	1	1	2	1	5	6	23	38	9	11	15	22	16	0 :	157
1. - 3. :	21	8	7	3	14	9	12	13	9	15	36	9	15	8	22	21	0 :	222
LT 1. :	4	4	9	5	6	7	6	3	18	19	18	5	7	7	7	2	0 :	127
TOTAL :	29	14	17	9	21	18	20	21	35	76	133	35	36	47	55	39	0	605
PERCENT	5.	2.	3.	1.	3.	3.	3.	3.	6.	13.	22.	6.	6.	8.	9.	6.	0.	100.

0 = NO OBSERVATIONS

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

C-B SHALE OIL PROJECT

30 METER LEVEL

STATION AA23 PERIOD(6/01/81 TO 6/30/81)

WIND DIRECTION

WIND SPEED MAX METERS/SEC	WIND DIRECTION																NNW	VAR	TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW			
GT 11. :	0	0	0	0	0	0	0	0	0	4	2	2	0	0	0	0	0	0	8
8. - 11. :	0	0	0	0	0	1	0	1	3	21	33	2	3	15	0	0	0	0	79
5. - 8. :	2	0	0	0	1	2	2	5	3	26	30	7	7	10	17	8	0	0	120
3. - 5. :	4	7	1	1	8	4	10	5	6	8	10	6	15	8	20	14	0	0	127
1. - 3. :	12	9	7	5	8	12	13	5	4	8	16	13	8	10	18	15	0	0	163
LT 1. :	5	8	7	7	9	4	5	5	9	8	6	7	5	1	8	7	0	0	101
TOTAL :	23	24	15	13	26	23	30	21	25	75	97	37	38	44	63	44	0	0	598
PERCENT	4.	4.	3.	2.	4.	4.	5.	4.	4.	13.	16.	6.	6.	7.	11.	7.	0.	0.	100.

0 = NO OBSERVATIONS

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

60 METER LEVEL

C-B SHALE OIL PROJECT

STATION AA23 PERIOD(6/01/81 TO 6/30/81)

WIND DIRECTION

WIND SPEED MAX METERS/SEC	WIND DIRECTION											NNW	NW	NNW	VAR	TOTAL		
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	TOTAL
GT 11. :	0	0	0	0	0	0	0	0	0	8	7	3	0	0	0	0	0 :	18
8. - 11. :	0	0	0	0	0	1	2	1	2	12	51	12	1	17	4	1	0 :	104
5. - 8. :	1	2	0	1	0	0	3	4	7	6	33	6	7	11	17	16	0 :	114
3. - 5. :	13	3	6	1	2	6	11	8	4	6	8	6	10	11	16	16	0 :	127
1. - 3. :	14	10	9	12	9	9	10	12	8	4	7	16	8	12	18	21	0 :	179
LT 1. :	8	1	6	4	2	2	6	5	5	3	3	5	8	2	3	3	0 :	66
TOTAL :	36	16	21	18	13	18	32	30	26	39	109	48	34	53	58	57	0	608
.....																		
PERCENT	6.	3.	3.	3.	2.	3.	5.	5.	4.	6.	18.	8.	6.	9.	10.	9.	0.	100.

0 = NO OBSERVATIONS

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

10 METER LEVEL

C-B SHALE OIL PROJECT

STATION AD42 PERIOD 6/01/81 - 6/30/81

DATA NOT AVAILABLE AT REPORT TIME

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

10 METER LEVEL

C-B SHALE OIL PROJECT

STATION AD56 PERIOD 6/01/81 - 6/30/81

DATA NOT AVAILABLE AT REPORT TIME

FIVE MAXIMUM SLIDING AVERAGE
UG/M**3

C-R TRACT
SITE AR20
JUNE 1981
OCCIDENTAL OIL SHALE, INC.

COMPONENT	AVG. TIME	RANK	DAY	HOUR (BEG)	VALUE
S02	3 HR	1	15	19	8.7
		2	1	1	7.9
		3	1	4	7.9
		4	1	9	7.9
		5	1	12	7.9
S02	24 HR	1	14	22	8.0
		2	1	9	7.9
		3	2	9	7.9
		4	3	23	7.9
		5	4	23	7.9
C0	1 HR	1	12	11	0.0
		2	12	10	0.0
		3	12	8	0.0
		4	12	9	0.0
		5	12	7	0.0
C0	8 HR	1	12	4	0.0
		2	11	20	0.0
		3	9	4	0.0
		4	8	20	0.0
		5	6	17	0.0
03	1 HR	1	13	14	141.3
		2	13	15	137.3
		3	13	16	133.4
		4	13	17	127.5
		5	17	19	119.7
PART	24 HR	1	17	1	69.4
		2	20	1	53.5
		3	23	1	52.3
		4	14	1	27.5
		5	2	1	21.6

FIVE MAXIMUM SLIDING AVERAGE
UG/M**3

C-8 TRACT
SITE AR23
JUNE 1981
OCCIDENTAL OIL SHALE, INC.

COMPONENT	AVG. TIME	RANK	DAY	HOUR (BEG)	VALUE
S02	3 HR	1	21	19	5.2
		2	21	22	3.5
		3	17	19	2.6
		4	20	1	2.6
		5	20	4	2.6
S02	24 HR	1	21	7	2.8
		2	23	10	2.0
		3	19	19	0.9
		4	22	7	0.7
		5	17	11	0.5
C0	1 HR	1	16	13	400.0
		2	12	17	400.0
		3	12	16	400.0
		4	12	18	400.0
		5	12	15	400.0
C0	8 HR	1	12	14	400.0
		2	12	22	300.0
		3	16	9	200.0
		4	11	11	200.0
		5	15	13	200.0
03	1 HR	1	13	14	133.4
		2	13	15	131.5
		3	13	16	129.5
		4	4	16	127.5
		5	13	17	127.5
PART	24 HR	1	17	1	61.8
		2	23	1	53.2
		3	20	1	36.6
		4	8	1	27.6
		5	2	1	21.6

FIVE MAXIMUM SLIDING AVERAGE
UG/M³

C-8 TRACT
SITE AD56
JUNF 1981
OCCIDENTAL OIL SHALE, INC.
VALUE

COMPONENT PART	AVG. TIME 24 HR	RANK	DAY	HOUR(BEG)	VALUE
		1	23	1	34.7
		2	20	1	28.1
		3	17	1	24.9
		4	8	1	18.2
		5	11	1	17.7

SOURCE OF DATA REPORTED
PERCENT

C-b TRACT
TRAILER AB20

JUNE 1981
OCCIDENTAL OIL SHALE, INC.

	NO	NO _x	NO ₂	O ₃	CO	SO ₂
MULTIPOINT RECORDER *						
DATA ACQUISITION SYSTEM	99	99	99	99	96	88
OTHER SYSTEMS						
EFFICIENCY	99	99	99	99	96	88

MULTIPOINT
RECORDER *

DATA ACQUISITION
SYSTEM

OTHER SYSTEMS

EFFICIENCY

* Serves as Back-up to Data Acquisition System

SOURCE OF DATA REPORTED
PERCENT

C-b TRACT
TRAILER AB20
JUNE 1981
OCCIDENTAL OIL SHALE, INC.

WS	WD	SIGMA HWD 10m	TEMP	INVERS. HT	STB 50m	STB 200m	PART	PRECIP.
----	----	------------------	------	---------------	------------	-------------	------	---------

MULTIPOINT
RECORDER *

DATA ACQUISITION
SYSTEM

99	99	99	99					
----	----	----	----	--	--	--	--	--

OTHER SYSTEMS

				100	100	100	80	100
--	--	--	--	-----	-----	-----	----	-----

EFFICIENCY

99	99	99	99	100	100	100	80	100
----	----	----	----	-----	-----	-----	----	-----

* Serves as Back-up to Data Acquisition System

SOURCE OF DATA REPORTED
PERCENT

C-b TRACT
TRAILER AB23
JUNE 1981
OCCIDENTAL OIL SHALE, INC.

	NO	NO _x	NO ₂	O ₃	SO ₂	H ₂ S	CO	BAR PRESS.	SOLAR RAD.
--	----	-----------------	-----------------	----------------	-----------------	------------------	----	---------------	---------------

MULTIPOINT
RECORDER *

DATA ACQUISITION
SYSTEM

	54	54	54	83	71	61	76	67	67
--	----	----	----	----	----	----	----	----	----

OTHER SYSTEMS

EFFICIENCY

	54	54	54	83	71	61	76	67	67
--	----	----	----	----	----	----	----	----	----

* Serves as Back-up to Data Acquisition System

C-b TRACT
TRAILER AB23
JUNE 1981
OCCIDENTAL OIL SHALE, INC.

SOURCE OF DATA REPORTED
PERCENT

	TMP 10m	TMP 30m	TMP 60m	DT 60-10m	RH	PART	PREC
--	------------	------------	------------	--------------	----	------	------

MULTIPOINT
RECORDER *

DATA ACQUISITION
SYSTEM

85	85	85					
----	----	----	--	--	--	--	--

OTHER SYSTEMS

					91	90	100
--	--	--	--	--	----	----	-----

EFFICIENCY

85	85	85	85		91	90	100
----	----	----	----	--	----	----	-----

* Serves as Back-up to Data Acquisition System

SOURCE OF DATA REPORTED
PERCENT

C-bTRACT
TRAILER AB23
JUNE 1981
OCCIDENTAL OIL SHALE, INC.

SIGMA HWD 10m	SIGMA HWD 30m	SIGMA HWD 60m	WS 10m	WS 30m	WS 60m	WD 10m	WD 30m	WD 60m
------------------	------------------	------------------	-----------	-----------	-----------	-----------	-----------	-----------

MULTIPOINT
RECORDER *

DATA ACQUISITION
SYSTEM

85	85	85	85	85	85	85	85	85
----	----	----	----	----	----	----	----	----

OTHER SYSTEMS

85	85	85	85	85	85	85	85	85
----	----	----	----	----	----	----	----	----

*Serves as Back-up to Data Acquisition System

SOURCE OF DATA REPORTED
PERCENT

C-b TRACT
SITE AD42

JUNE 1981
OCCIDENTAL OIL SHALE, INC.

WS 10m
WD 10m
TMP 10m

OTHER SYSTEMS

EFFICIENCY

SOURCE OF DATA REPORTED
PERCENT

C-b TRACT
SITE AD56

JUNE 1981
OCCIDENTAL OIL SHALE, INC.

WS 10m
WD 10m
TMP 10m
PART

OTHER SYSTEMS

90

EFFICIENCY

90

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AIR MONITORING REPORT
FOR
PROTOTYPE OIL SHALE LEASE TRACT C-B

JULY 1981

SUBMITTED
NOVEMBER 25, 1981



PREPARED BY :
OCCIDENTAL OIL SHALE, INC. OPERATOR
P.O. BOX 2687
GRAND JUNCTION, COLORADO 81501

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CB-TRACT
TRAILER AR20
JULY 1981
OCCIDENTAL OIL SHALE INC.

[illegible]

NITPIC OXIDE
(UG/M3)

CR-TRACT
TRAILER A923
JULY 1991
OCCIDENTAL OIL SHALE INC.

HO/HR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	2	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
4	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	2	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)
8	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)
9	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)
10	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)
11	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)
12	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)
13	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)
14	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)
15	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)
16	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)
17	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)
18	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)
19	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)
20	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)
21	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)
22	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)
23	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)
24	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)
25	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)
26	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)
27	1	5	1	1	1	1	1	4	2	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28	1	1	1	1	1	0	1	1	0	1	1	1	1	2	2	1	1	1	1	0	1	1	0	0	0	0
29	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	2	5	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)
31	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)
AV	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
PK	2	5	1	1	1	2	2	4	2	5	1	1	1	2	2	4	4	2	1	2	2	2	2	2	2	5

OXIDES OF NITROGEN
(UG/M3)

CR-TRACT
TRAILER AR20
JULY 1981
OCCIDENTAL OIL SHALE INC.

DAY	HOUR (LOCAL STANDARD TIME)																								AVE PEAK
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	4	0	0	6	0	0	(CA)	0	0	0	0	0	0	0	0	0	0	0	6
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	(CA)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
15	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
16	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	0	0	0	0	0	0	0	0	0	0	()
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	0	0	0	0	0	0	()	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	4	2	2	2	2	4	2	2	2	2	2	4	4	6	4	2
AV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PK	0	0	0	0	0	0	4	0	0	6	2	2	2	2	4	2	2	2	2	4	4	4	6	4	6

OXIDES OF NITROGEN
(UG/M3)

CR-TRACT
TRAILER AR23
JULY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	17	2	0	2	0	0	0	0	(PF)	(PF)	0	0	17
2	9	0	0	0	0	0	0	0	0	0	0	0	8	8	6	11	15	9	6	4	6	4	2	4	3	15
3	11	4	4	4	4	6	4	6	8	4	0	2	0	0	0	0	0	2	0	0	0	0	0	0	2	11
4	8	4	4	2	8	6	2	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	9
5	5	23	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	23
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	9	
7	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
8	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
9	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
10	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
11	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
12	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
13	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
14	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
15	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
16	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
17	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
18	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
19	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
20	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
21	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
22	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
23	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
24	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
25	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
26	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
27	0	4	0	0	0	0	0	2	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
AV	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	23
PK	11	23	4	4	8	6	4	6	8	9	0	2	0	17	6	11	15	9	6	4	8	4	9	6	()	()

NITROGEN DIOXIDE
(UG/M3)CR-TRACT
TRAILER AB20
JULY 1981
OCCIDENTAL OIL SHALE INC.

DAY	HOUR (LOCAL STANDARD TIME)																								AVE PEAK
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	2	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	4
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	0
16	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	2	2	4	2	1
AV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PK	0	0	0	0	0	0	2	0	0	2	0	0	0	4	0	0	0	0	0	2	2	2	4	2	4

NITROGEN DIOXIDE
(UG/M3)

CR-TRACT
TRAILER AR23
JULY 1991
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
3	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	9
4	0	2	2	0	6	4	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
5	2	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
7	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	4
8	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()
9	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
10	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
11	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
12	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
13	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
14	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
15	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
16	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
17	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
18	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
19	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
20	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
21	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
22	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
23	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
24	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
25	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
26	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
27	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()
AV	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
PK	0	17	2	2	6	4	0	2	4	6	0	0	0	15	4	6	9	6	4	2	4	2	0	0	4	17

OZONE
(UG/M3)CR-TRACT
TRAILER AR20
JULY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	55	63	65	67	71	74	74	82	82	84	86	88	88	90	94	90	86	78	73	65	41	31	29	31	70	94
2	22	25	25	25	22	22	25	65	76	86	90	94	94	94	96	94	104	104	96	90	67	49	31	31	64	104
3	25	24	24	24	20	22	31	53	76	88	102	102	104	108	102	108	106	106	98	88	96	84	57	49	71	108
4	43	39	39	39	37	35	45	73	100	110	112	114	112	112	108	108	110	112	112	94	78	67	59	53	80	114
5	55	57	57	57	55	49	59	69	74	102	116	116	116	116	118	116	116	112	100	90	73	63	63	65	84	118
6	65	65	63	67	67	65	71	82	98	106	106	108	112	112	112	116	114	112	110	110	86	76	69	71	90	116
7	71	71	71	69	67	59	65	76	92	108	106	108	110	110	112	110	110	112	112	84	86	84	92	71	91	112
8	51	49	47	39	37	31	33	76	88	98	102	108	110	116	112	112	112	110	106	100	100	92	80	76	83	116
9	63	69	73	74	73	67	74	92	129	98	108	110	102	94	90	92	86	73	65	67	67	65	33	25	79	129
10	22	22	20	24	27	27	41	67	73	78	84	92	104	106	106	98	96	102	86	88	69	59	55	61	67	106
11	59	53	53	51	51	57	59	78	96	100	98	100	102	102	102	98	90	84	74	94	78	80	61	45	78	102
12	33	29	33	33	37	39	41	51	53	65	73	102	114	116	114	110	108	102	98	82	73	73	76	74	72	116
13	78	53	65	57	45	37	39	69	86	88	94	96	90	92	98	98	100	100	88	71	76	65	61	59	75	100
14	59	55	47	35	25	25	29	47	73	86	96	102	106	108	106	108	102	104	80	67	76	49	47	47	70	108
15	43	41	37	35	35	33	39	55	73	86	92	94	100	98	98	98	98	94	94	86	63	55	53	45	69	100
16	51	53	55	55	57	55	53	67	80	76	78	84	84	88	88	88	90	94	92	98	82	65	61	61	74	98
17	57	53	55	53	57	57	51	65	94	92	94	94	94	88	86	88	92	90	86	88	94	94	71	59	77	94
18	55	47	37	37	33	31	35	57	86	106	108	112	112	104	104	94	86	102	84	61	55	100	96	86	76	112
19	63	43	47	45	33	37	51	69	102	114	120	112	110	108	108	108	108	104	96	78	61	55	51	51	78	120
20	55	53	51	51	51	53	57	63	76	98	112	116	112	108	110	110	104	100	100	86	74	61	57	57	80	116
21	57	59	61	65	69	65	67	94	123	123	122	123	122	122	123	125	120	120	108	92	74	67	65	61	90	125
22	65	67	69	67	65	63	63	71	96	104	114	116	108	110	108	106	110	110	102	86	67	59	57	59	85	116
23	57	59	59	59	55	47	53	67	84	100	102	104	108	112	112	96	98	100	96	96	88	67	51	51	80	112
24	51	49	51	47	49	47	53	80	104	112	114	114	123	135	133	139	143	133	131	127	122	123	110	106	100	143
25	114	114	94	71	57	74	67	92	118	125	125	127	129	131	129	127	127	123	123	108	104	98	74	73	105	131
26	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	84	94	88	71	49	43	()	110
27	43	39	43	39	37	35	43	59	106	127	133	139	137	141	149	147	149	153	149	127	104	98	94	96	100	153
28	98	98	94	96	94	88	96	112	137	145	145	147	147	123	123	122	122	120	122	102	86	82	76	76	110	147
29	73	78	80	78	76	71	74	90	118	122	135	139	135	133	123	122	123	123	114	96	86	82	82	80	102	139
30	82	82	84	84	86	84	78	86	102	110	114	116	120	123	125	125	127	125	122	88	90	88	84	82	100	127
31	74	74	73	71	73	73	73	84	106	145	151	153	155	157	159	161	161	161	149	143	131	118	118	125	120	161
AV	58	56	56	54	52	51	55	72	92	103	108	111	112	112	112	111	110	109	102	92	82	75	67	64	84	
PX	114	114	94	96	94	88	96	112	137	145	151	153	155	157	159	161	161	157	149	143	131	123	118	125		161

OZONE
(UG/M3)CB-TRACT
TRAILER AR23
JULY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	90	94	94	94	92	88	84	80	80	82	80	80	80	84	84	80	78	80	76	71	61	59	53	47	79	94
2	41	41	45	47	41	37	47	63	74	84	86	90	90	88	94	90	90	96	94	88	80	63	59	61	70	96
3	59	63	59	55	57	51	57	71	80	94	102	100	100	106	102	106	106	106	102	96	94	90	88	82	84	106
4	86	82	80	73	73	71	65	86	104	102	102	102	104	104	102	102	102	104	102	96	84	88	90	86	91	104
5	86	67	90	92	92	90	78	80	112	112	114	112	110	110	112	112	110	104	102	98	86	84	86	88	96	114
6	86	88	86	88	90	86	84	90	102	104	104	104	108	108	108	110	108	108	106	106	96	98	92	92	98	110
7	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()	()
8	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()	()
9	90	90	88	86	86	86	88	94	98	100	100	102	104	106	104	102	98	80	82	86	82	88	78	80	92	106
10	71	76	76	71	69	67	73	88	94	94	94	96	98	98	100	90	100	100	92	90	88	82	78	78	86	100
11	82	80	82	84	82	78	76	90	98	96	98	90	94	94	96	90	90	92	82	82	82	84	80	69	87	98
12	55	55	73	61	65	57	61	71	74	78	82	96	100	110	108	108	104	92	82	82	84	80	82	84	81	110
13	84	76	76	80	78	80	78	84	90	92	92	90	88	88	92	92	90	92	88	86	88	80	74	73	85	92
14	74	74	71	57	55	57	59	71	69	84	90	94	94	92	92	96	92	88	84	76	63	73	78	82	79	96
15	65	69	69	73	69	65	49	39	49	59	65	67	69	67	67	67	69	65	63	55	55	57	55	51	62	73
16	51	49	51	53	45	49	47	(IM)	(IM)	(IM)	61	61	65	65	69	63	63	67	59	57	67	59	61	57	59	71
17	57	59	59	55	55	53	49	57	67	67	67	67	67	67	65	63	63	65	59	57	65	71	61	53	61	71
18	47	45	47	45	43	45	39	53	71	76	76	78	78	73	78	78	74	74	69	63	61	69	69	67	63	78
19	55	53	45	45	51	59	65	71	76	76	86	82	78	76	76	78	78	76	74	65	61	61	61	63	67	86
20	55	59	57	47	61	59	55	47	49	71	80	82	80	76	78	78	73	88	71	67	59	71	63	65	65	80
21	78	84	84	78	71	63	55	80	80	88	86	88	88	90	90	90	88	88	82	71	69	71	71	63	78	90
22	61	63	57	59	61	59	55	67	71	74	82	86	78	74	74	73	76	76	71	69	67	61	59	57	68	86
23	59	51	55	59	53	57	49	51	67	71	73	74	78	80	82	71	71	73	71	67	59	57	57	55	64	82
24	49	47	51	51	49	49	49	67	76	78	82	84	82	84	82	80	88	82	80	78	78	78	71	69	70	88
25	76	76	73	69	61	57	45	51	67	74	76	78	80	82	76	78	76	73	74	67	65	59	47	45	68	82
26	45	51	57	59	53	53	43	55	63	67	69	74	78	82	80	76	76	67	55	51	47	41	43	49	60	82
27	49	45	43	41	31	39	37	43	53	69	73	78	76	78	82	82	76	84	88	86	78	76	78	76	65	88
28	74	74	74	78	74	76	65	69	78	80	82	82	80	78	80	82	82	80	82	69	67	69	57	67	75	82
29	76	73	67	71	73	73	65	61	73	82	84	84	84	86	86	86	88	88	80	76	76	76	78	76	78	88
30	73	71	69	71	71	65	63	69	73	76	82	80	84	85	86	84	84	82	80	71	67	73	71	78	75	86
31	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()	()
AV	67	66	67	66	64	63	60	68	77	83	86	86	87	88	88	87	86	85	81	78	74	72	70	69	76	
PK	90	94	94	94	92	90	88	94	104	112	114	112	110	110	112	112	110	108	106	106	98	98	94	92	114	

CARRON MONOXIDE
(UG/M3)

C8-TRACT
TRAILER AR20
JULY 1981
OCCIDENTAL OIL SHALE INC.

DAY	HOUR (LOCAL STANDARD TIME)																								AVE PEAK
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CARBON MONOXIDE
(UG/M3)CB-TRACT
TRAILER AR23
JULY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK	
1	1800	1800	1800	1800	1700	1700	1700	1700	1700	0	0	0	0	100	100	200	200	200	200	100	100	100	100	100	100	700	1800
2	100	100	100	100	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
3	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	
5	400	400	400	400	400	500	500	500	500	500	500	500	500	600	600	600	600	600	600	300	300	300	400	400	400	100	400
6	700	700	700	700	700	700	700	800	800	800	800	800	800	800	800	800	800	800	900	900	900	900	900	900	900	500	700
7	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	800	900
8	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
16	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
17	300	300	300	300	300	300	300	300	300	100	100	100	100	200	200	300	300	300	300	300	300	300	300	300	300	200	300
18	200	200	200	200	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	200	200	200	200	200	200	100	200
19	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	100	200
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	100
22	200	200	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	200	200	200	200	200	200	100	200
23	0	0	0	0	0	0	0	0	0	100	100	100	100	200	200	300	300	300	300	300	300	300	300	300	300	100	300
24	300	300	300	300	200	200	200	200	200	200	200	200	200	300	300	300	300	300	300	200	200	200	200	200	200	300	300
25	200	200	200	200	300	300	300	300	300	200	200	200	200	300	300	300	300	300	300	300	300	300	300	300	300	300	400
26	300	300	300	300	300	300	300	300	300	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	300
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	300	300	300	300	300	300	300	300	300	100	100	100	100	100	100	100	100	100	100	200	200	200	200	200	200	100	200
31	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
AV	200	200	200	200	200	200	200	200	200	100	100	100	100	100	100	100	100	200	200	200	200	200	200	200	200	200	1800
PK	1800	1800	1800	1800	1700	1700	1700	1700	1700	800	800	800	800	800	800	800	800	800	900	900	900	900	900	900	900	200	1800

SULFUR DIOXIDE
(UG/M3)CR-TRACT
TRAILER AR20
JULY 1981
OCCIDENTAL OIL SHALE INC.

DAY	HOUR (LOCAL STANDARD TIME)																								AVE PEAK
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	0
21	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	0
22	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	0
23	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	0
24	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	0
25	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	0
26	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	0
27	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	0
28	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	0
29	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	0
30	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	0
31	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	0
AV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3

SULFUR DIOXIDE
(UG/M3)

CB-TRACT
TRAILER AR23
JULY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE PEAK
1	0	0	0	0	0	0	0	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	3 (CA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	3	3	3	3	0	0	3	3	3	3	3	3	0	0	0	0	0
5	0	0	0	0	0	0	0	0	3	0	0	0	3	3	3	3	0	3	3	0	0	3	0	0	0
6	0	3	0	0	0	0	0	0	0	0	3	3	3	3	3	3	3	3	3	0	3	0	0	0	0
7	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
8	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
17	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
18	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
19	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
20	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
21	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
22	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
23	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
24	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
25	3	3	3	3	3	3	3	3	3	5	5	5	5	5	5	5	5	5	5	3	3	3	3	4	4
26	3	3	3	3	3	3	3	3	3	5	5	5	5	5	5	5	5	5	5	3	3	3	3	4	4
27	3	5	3	3	3	3	3	5	8	8	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
28	5	5	5	5	3	3	5	5	5	5	8	10	8	8	8	5	5	5	3	5	3	5	8	6	10
29	5	5	5	5	5	5	5	5	3	5	5	(MT)	5	5	5	5	5	5	5	5	5	5	5	5	5
30	5	5	5	5	5	5	5	3	0	0	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
31	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
AV	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	2
K	5	5	5	5	5	5	5	5	8	8	8	10	8	8	8	5	5	5	5	5	5	5	8	8	10

HYDROGEN SULFIDE
(UG/M3)CB-TRACT
TRAILER AR23
JULY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	0	0	0	0	0	0	0	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	(CA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	0
5	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	0
6	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	0
7	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	0
8	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	0
9	1	1	1	1	1	1	1	1	3	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0
10	3	1	1	1	3	1	1	1	3	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0
11	1	1	1	1	1	3	1	1	3	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0
12	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0
13	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0
14	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0
15	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	1	1	1	1	3	1	1	8	(MT)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	0
17	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	10	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	0
18	3	3	3	3	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	3	3	3	3	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
20	0	0	0	0	0	0	0	0	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0
21	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0
22	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0
23	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0
24	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0
25	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0
26	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0
27	3	3	3	3	3	3	3	3	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	0
28	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0
29	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0
30	0	0	0	0	0	0	0	1	4	7	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	0
31	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	0
AV	2	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
PK	3	3	3	3	3	3	3	8	4	10	7	3	3	3	3	3	3	3	3	3	3	3	3	3	3	10

PARTICULATE DATA
UG/M³

CR-TRACT
JULY 1981
OCCIDENTAL OIL SHALE, INC

DAY	STATION		AD56
	AR20	AR23	
2	9.0	20.0	9300.0
5	32.3	15.6	10.0
8	29.7	57.0	74.3
11	22.9	29.3	6.5
14	22.1	24.0	4.7
17	13.8	24.0	21.9
20	19.9	42.5	0.0
23	25.4	48.9	21.8
26	16.0	16.2	10.9
29	31.6	56.9	33.8
PK	32.3	57.0	74.3
AV	22.3	33.4	20.4
GM	20.8	29.9	7.0

WIND SPEED @10M
METERS/SEC

CR-TRACT
TRAILER AR20
JULY 1981
OCCIDENTAL OIL SHALE INC.

DAY	HOUR (LOCAL STANDARD TIME)																															AVE PEAK
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24								
1	2	2	1	1	1	1	2	1	1	1	3	3	4	2	3	3	2	1	1	2	1	1	(CM)	(CM)	2	4						
2	(CM)	0	1	2	(CM)	(CM)	0	1	2	2	1	1	2	4	5	6	5	2	2	1	1	1	1	1	2	2						
3	1	1	2	1	1	1	2	0	0	2	2	3	3	3	3	4	2	1	2	2	2	2	2	2	2	2						
4	1	2	1	1	2	2	3	1	2	2	2	3	2	2	2	2	1	2	2	2	2	2	2	2	2	2						
5	1	2	1	1	2	2	4	2	2	3	3	3	4	3	3	3	3	4	3	4	0	1	3	4	4	4						
6	4	2	1	4	4	1	1	1	1	2	3	3	3	4	4	2	2	2	1	2	2	2	2	2	2	2						
7	2	2	2	2	2	1	0	2	2	3	3	2	2	(CM)	3	3	4	2	4	6	4	4	3	0	2	2						
8	1	2	2	3	4	3	3	2	2	3	2	2	2	4	4	3	2	3	3	3	3	3	3	1	1	1						
9	2	2	2	3	4	3	3	2	2	1	1	2	2	4	3	1	4	2	2	2	2	2	2	2	2	2						
10	1	2	2	2	2	3	2	2	2	2	2	2	2	1	4	2	2	2	2	2	2	2	2	2	2	2						
11	1	2	2	2	2	3	3	2	2	2	3	4	3	1	1	1	1	1	2	2	2	2	2	2	2	2						
12	1	2	2	2	2	3	3	2	2	2	2	2	3	0	2	2	1	2	2	2	2	2	2	2	2	2						
13	2	2	1	1	1	0	1	1	1	2	2	2	1	2	2	2	1	2	2	2	2	2	2	2	2	2						
14	3	2	1	2	2	1	2	2	2	(CM)	2	3	2	2	2	0	1	2	2	2	2	2	2	2	2	2						
15	2	0	2	2	2	2	1	2	0	(CM)	2	2	3	2	2	1	1	1	1	2	2	1	(CM)	0	2	2						
16	2	0	2	2	2	3	3	3	4	3	3	4	3	3	4	4	4	4	4	3	3	3	3	2	2	2						
17	2	0	2	2	2	2	2	2	4	3	3	4	3	3	4	4	4	4	4	3	3	3	3	2	2	2						
18	2	0	2	2	2	2	2	2	4	3	3	4	3	3	4	4	4	4	4	3	3	3	3	2	2	2						
19	2	0	2	2	2	2	2	2	4	3	3	4	3	3	4	4	4	4	4	3	3	3	3	2	2	2						
20	2	0	2	2	2	2	2	2	4	3	3	4	3	3	4	4	4	4	4	3	3	3	3	2	2	2						
21	2	0	2	2	2	2	2	2	4	3	3	4	3	3	4	4	4	4	4	3	3	3	3	2	2	2						
22	2	0	2	2	2	2	2	2	4	3	3	4	3	3	4	4	4	4	4	3	3	3	3	2	2	2						
23	2	0	2	2	2	2	2	2	4	3	3	4	3	3	4	4	4	4	4	3	3	3	3	2	2	2						
24	2	0	2	2	2	2	2	2	4	3	3	4	3	3	4	4	4	4	4	3	3	3	3	2	2	2						
25	2	0	2	2	2	2	2	2	4	3	3	4	3	3	4	4	4	4	4	3	3	3	3	2	2	2						
26	2	0	2	2	2	2	2	2	4	3	3	4	3	3	4	4	4	4	4	3	3	3	3	2	2	2						
27	2	0	2	2	2	2	2	2	4	3	3	4	3	3	4	4	4	4	4	3	3	3	3	2	2	2						
28	2	0	2	2	2	2	2	2	4	3	3	4	3	3	4	4	4	4	4	3	3	3	3	2	2	2						
29	2	0	2	2	2	2	2	2	4	3	3	4	3	3	4	4	4	4	4	3	3	3	3	2	2	2						
30	2	0	2	2	2	2	2	2	4	3	3	4	3	3	4	4	4	4	4	3	3	3	3	2	2	2						
31	2	0	2	2	2	2	2	2	4	3	3	4	3	3	4	4	4	4	4	3	3	3	3	2	2	2						
AV	2	2	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2						
PK	4	4	3	4	4	4	4	3	4	4	5	6	6	6	6	6	5	4	4	4	4	4	4	4	4	6						

WIND SPEED @ 10M
METERS/SEC

CR-TRACT
TRAILER AA23
JULY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	2	3	3	3	2	(CM)	0	1	1	2	3	3	4	3	3	3	2	2	1	1	1	1	1	0	2	4
2	0	1	1	1	1	1	0	1	2	2	2	1	2	2	5	6	6	3	2	2	0	1	2	2	2	6
3	1	0	0	1	1	0	0	0	2	1	1	2	2	2	4	5	4	0	3	3	2	1	1	0	0	5
4	(CM)	1	1	1	0	0	1	1	1	2	3	4	3	3	2	3	2	1	3	2	2	2	0	0	2	4
5	0	1	2	2	1	1	1	2	1	2	2	(CM)	2	1	2	2	2	3	2	4	0	2	3	2	2	4
6	1	1	2	2	3	3	2	1	3	5	5	5	4	4	4	4	4	3	4	6	2	2	2	2	3	6
7	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()	
8	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()	
9	2	2	2	2	3	2	2	2	2	3	1	1	2	2	2	2	3	3	4	6	5	4	2	2	3	6
10	1	1	3	2	2	2	2	1	3	4	4	4	4	1	2	5	2	0	1	3	2	1	2	1	2	5
11	1	2	2	2	2	2	2	0	2	2	2	4	3	4	2	5	2	0	0	3	4	2	0	0	2	5
12	1	1	1	1	1	(CM)	1	1	2	2	4	4	1	2	3	3	2	2	2	2	1	2	1	1	2	4
13	3	1	2	3	2	2	1	1	2	3	4	4	1	1	0	1	3	2	3	2	2	1	3	2	2	4
14	2	1	0	1	1	1	1	1	1	1	2	0	1	1	1	1	2	1	0	0	3	1	1	(CM)	2	4
15	0	1	1	0	0	0	(CM)	0	1	2	1	3	1	3	2	1	2	2	2	2	1	2	0	0	1	3
16	2	2	2	1	1	2	1	2	4	4	2	3	3	4	0	2	4	5	4	3	1	2	1	1	2	5
17	1	0	1	1	1	2	1	2	3	2	2	3	3	4	4	3	3	2	4	3	4	1	1	2	2	6
18	2	1	2	1	1	2	0	1	0	1	1	0	1	4	6	4	4	4	4	2	0	5	3	1	2	4
19	1	1	(CM)	2	1	2	2	3	3	1	4	6	6	8	6	7	6	6	4	4	3	2	1	0	3	8
20	1	0	1	(CM)	1	0	2	1	0	1	5	4	3	8	7	4	5	4	4	2	3	0	2	0	3	6
21	0	0	0	0	1	1	0	1	3	4	4	4	4	4	4	4	4	4	4	1	2	2	1	2	2	6
22	1	0	(CM)	2	2	1	1	2	4	4	4	4	4	4	6	5	4	4	4	5	4	(CM)	3	1	3	5
23	0	1	1	1	1	1	0	0	3	4	4	4	4	4	4	5	4	1	3	0	4	4	1	3	5	5
24	5	7	5	0	2	3	2	2	4	3	3	5	5	6	6	6	7	3	4	0	4	4	1	0	7	7
25	1	4	5	4	1	1	0	1	2	8	7	7	6	6	3	6	4	0	1	2	1	1	1	1	8	8
26	1	0	2	1	2	0	1	0	6	2	2	3	3	3	4	4	4	4	2	1	1	2	1	0	4	4
27	1	0	1	2	1	1	1	1	2	4	6	6	5	5	6	4	4	4	4	4	4	4	3	2	6	4
28	1	0	1	2	1	1	1	1	2	1	1	2	1	4	2	1	0	1	3	4	4	4	3	2	4	6
29	0	1	1	2	1	1	1	1	2	4	4	4	5	6	6	5	5	5	3	3	3	3	0	0	3	6
30	2	0	1	3	4	0	1	1	1	4	4	4	5	6	6	5	5	5	3	3	3	3	0	0	3	6
31	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()	
AV	1	1	2	2	2	1	1	1	2	3	3	3	3	4	4	4	3	3	3	3	2	2	2	1	2	8
PK	5	7	5	4	4	3	2	3	6	8	7	7	8	8	7	7	7	6	4	6	5	5	3	4	4	

WIND SPEED @ 30M
METERS/SEC

CB-TRACT
TRAILER AA23
JULY 1981
OCCIDENTAL OIL SHALE INC.

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	3	5	5	4	1	0	1	1	1	2	4	4	4	4	3	4	3	3	1	1	2	2	2	0	3	5
2	(CM)	1	2	2	1	1	1	1	2	2	3	2	3	3	7	8	8	4	3	3	3	2	3	2	3	8
3	2	0	0	1	0	0	0	0	2	2	3	3	4	4	6	3	6	1	3	4	4	3	2	1	2	7
4	0	2	1	1	(CM)	0	1	1	2	3	3	4	4	4	3	3	3	2	4	4	4	4	2	0	2	4
5	1	1	3	3	2	2	2	2	1	2	3	0	2	2	3	2	2	4	3	5	1	1	4	2	2	5
6	1	0	3	4	4	4	3	2	4	7	7	6	6	6	5	5	6	4	5	8	3	3	3	3	4	6
7	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()	8
8	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	8
9	3	4	4	4	4	4	3	3	3	4	2	2	2	1	2	3	4	4	2	4	6	5	4	1	3	8
10	3	2	4	4	4	4	3	2	4	4	5	5	5	4	3	1	6	2	2	4	4	2	2	3	3	6
11	1	2	2	3	4	4	3	1	3	3	6	6	3	3	2	6	2	3	1	4	4	7	3	3	3	7
12	1	2	2	2	3	0	3	2	3	3	6	2	1	2	4	6	2	4	1	3	3	2	4	6	3	6
13	5	1	3	5	3	3	2	2	2	3	5	4	4	2	1	2	4	3	4	6	4	2	4	6	3	6
14	3	2	1	5	2	1	1	2	2	1	2	2	2	2	2	2	4	3	4	6	4	2	1	3	6	4
15	1	0	1	1	0	0	(CM)	1	1	1	2	1	2	2	2	3	3	1	0	2	4	3	1	(CM)	4	4
16	1	2	1	3	4	3	2	2	4	2	3	3	4	4	1	1	6	7	5	3	2	4	3	0	3	4
17	1	0	2	2	2	3	2	3	5	3	3	4	4	6	6	6	4	4	5	4	4	2	4	3	3	7
18	3	3	1	1	2	3	1	2	0	1	2	1	1	10	8	4	4	6	3	3	3	7	4	3	3	7
19	2	1	1	4	2	4	3	4	4	1	5	8	10	10	8	6	4	8	5	3	3	2	4	2	4	10
20	1	2	0	0	2	1	3	1	0	1	6	5	8	10	8	9	4	4	7	6	6	7	1	1	4	8
21	1	0	0	1	0	0	1	3	4	5	6	5	4	5	4	7	6	8	5	4	2	2	1	2	3	7
22	(CM)	2	0	1	2	1	2	3	5	6	7	5	5	6	5	7	6	6	5	8	6	5	3	2	3	8
23	(CM)	1	2	2	0	1	1	0	4	5	5	5	5	6	5	7	6	2	5	8	6	5	3	2	3	7
24	3	9	4	0	1	4	1	2	5	5	4	4	5	6	4	7	6	4	7	7	6	3	1	4	4	10
25	8	4	7	0	1	4	1	2	3	4	8	7	7	8	8	8	9	(CM)	1	3	2	3	2	(CM)	5	9
26	2	6	7	6	6	2	0	4	0	10	8	4	4	4	4	7	4	4	1	3	6	4	2	1	5	6
27	2	0	3	1	3	1	1	0	1	2	2	4	4	4	5	5	6	4	3	2	3	4	2	1	3	8
28	0	1	1	3	2	2	1	2	1	5	8	8	7	7	8	6	4	5	5	4	4	1	0	0	4	8
29	2	1	1	3	3	2	1	1	1	1	1	8	2	6	3	2	4	2	4	6	7	8	5	5	3	8
30	4	2	1	5	5	1	2	1	2	4	5	5	7	8	8	7	8	6	4	4	6	6	1	1	4	8
31	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
AV	2	2	2	3	3	2	2	2	3	3	4	4	4	5	5	5	5	5	4	4	4	3	2	2	3	10

WIND SPEED @ 60M
METERS/SEC

CB-TRACT
TRAILER AA23
JULY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	4	5	4	3	1	1	0	1	1	2	4	4	5	4	4	4	4	3	1	2	2	2	1	1	3	5
2	0	0	2	2	2	1	1	2	2	3	3	2	3	3	8	8	8	4	3	4	4	4	2	2	3	8
3	2	1	0	2	0	1	0	1	2	2	2	3	4	3	7	8	6	1	3	3	4	5	2	1	3	8
4	0	2	1	1	1	1	0	1	2	4	4	5	4	4	4	2	3	2	4	4	4	4	3	0	3	5
5	2	0	3	3	2	2	3	2	2	3	3	0	3	2	3	2	2	4	4	4	2	0	4	2	2	6
6	2	1	1	4	4	4	4	2	5	7	7	7	7	6	5	6	6	5	6	8	4	3	2	4	5	8
7	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
8	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
9	4	4	4	4	4	4	3	4	4	4	2	2	2	4	3	3	5	4	7	9	8	6	4	4	5	9
10	4	4	4	4	4	4	3	2	4	5	5	5	5	5	3	7	2	6	2	5	3	9	3	4	4	7
11	2	2	2	3	3	4	3	1	4	3	3	7	4	3	3	7	3	1	1	5	3	2	4	4	4	7
12	2	3	2	1	4	1	0	2	4	3	6	3	1	3	4	4	2	4	4	4	6	8	4	1	3	8
13	6	2	2	6	4	4	3	3	3	4	5	6	1	2	2	2	4	3	5	7	3	3	5	7	3	7
14	4	2	2	0	2	0	1	2	1	2	4	1	2	2	2	2	3	1	1	3	6	3	2	(CM)	2	6
15	2	0	1	2	2	1	1	1	1	3	2	4	4	4	3	3	4	3	3	4	2	4	4	1	2	4
16	2	2	1	2	3	3	3	4	5	5	4	4	4	6	7	8	6	7	6	5	2	2	5	4	4	8
17	2	1	1	2	3	3	0	2	1	1	2	4	4	6	9	4	5	3	3	4	4	4	4	4	4	9
18	3	2	1	2	2	3	3	4	4	1	6	8	11	11	8	6	5	7	6	6	2	3	6	2	3	11
19	3	1	1	1	3	5	4	4	4	2	7	6	8	4	10	9	9	9	8	7	8	3	3	0	5	11
20	2	3	1	1	3	3	3	1	0	2	6	6	4	4	5	6	8	7	8	4	4	3	3	2	5	11
21	1	1	2	2	2	1	2	4	6	6	8	5	5	6	5	8	7	6	6	5	3	2	1	1	4	8
22	3	1	2	0	2	1	1	1	5	5	5	5	6	6	5	8	2	6	5	3	7	7	4	2	4	10
23	0	1	2	2	0	1	1	1	4	4	4	4	6	7	8	8	6	7	4	8	7	7	3	5	5	8
24	4	5	4	4	4	4	3	3	3	4	5	4	6	8	9	9	10	4	4	1	7	4	1	2	4	10
25	9	11	8	1	1	5	1	2	8	12	9	9	8	8	9	8	5	0	8	8	7	4	2	0	5	11
26	3	7	0	7	8	1	1	0	1	4	5	4	4	4	6	6	6	4	1	4	3	1	2	2	6	12
27	3	0	3	1	1	1	1	1	1	5	8	8	4	4	8	8	6	5	6	3	4	2	3	2	3	6
28	1	1	0	3	3	2	1	1	1	2	8	8	8	8	8	6	4	5	6	5	4	2	2	2	4	8
29	3	2	(CM)	2	3	4	3	1	3	1	1	2	2	6	3	2	1	2	4	4	8	8	8	8	4	8
30	7	4	3	7	8	2	1	2	2	5	5	6	8	9	8	7	8	7	5	6	7	8	1	1	5	9
31	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
AV	3	3	3	3	3	2	2	2	3	4	4	5	5	5	5	5	5	4	4	5	5	4	3	3	4	12
PK	9	11	9	7	8	5	4	4	8	12	9	9	11	11	10	10	10	9	8	10	8	9	8	8	8	12

WIND SPEED 310M

C-B TRACT
MRI AD42
July, 1981

Refer to pages II-365 through II-377

Less than 50% data reported

Mechanical Recordering Instrument was removed and replaced by an R.A. solar powered data acquisition system installed July 25, 1981. Monitoring of data and maintenance of the instrumentation was contracted to WestAq Corp. upon purchase of the equipment.

WIND SPEED @10M

C-B TRACT
MRI AD56
July, 1981

DATA NOT AVAILABLE AT REPORT TIME

WIND DIRECTION @10M
DEGREESCR-TRACT
TRAILER AR20
JULY 1981
OCCIDENTAL OIL SHALE INC.

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	PREV
1	111	111	95	78	90	130	123	202	248	245	274	301	292	338	320	279	295	301	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	276
2	(CM)	319	330	124	125	123	344	320	306	289	329	298	349	284	277	297	305	328	4	75	86	94	102	102	334
3	106	111	124	134	125	123	123	117	249	278	287	294	287	296	199	246	205	62	19	24	105	98	111	110	128
4	111	127	123	113	121	127	126	130	186	323	313	358	318	330	316	287	318	0	11	30	58	90	112	110	62
5	94	101	122	127	103	124	133	146	305	218	144	275	266	287	268	196	95	189	138	84	107	121	123	135	141
6	137	127	114	135	130	138	136	110	123	192	205	236	230	248	200	220	224	230	288	297	302	71	103	134	173
7	126	126	112	107	107	95	96	127	171	206	191	218	214	223	245	243	277	282	347	170	105	22	335	4	161
8	31	39	109	109	109	106	109	289	289	284	277	281	281	271	273	279	319	335	102	111	107	111	126	122	56
9	108	111	120	137	139	128	122	111	157	242	264	286	37	(CM)	111	320	324	309	125	118	104	101	135	81	118
10	84	132	121	134	137	137	127	91	115	166	197	249	210	178	272	345	110	113	324	292	3	29	77	139	128
11	125	111	129	120	130	137	132	107	87	313	303	298	292	352	346	359	282	305	307	172	111	123	357	51	65
12	45	59	121	127	125	121	139	138	122	117	114	85	92	354	282	1	14	350	289	267	114	125	77	104	92
13	94	103	111	69	76	(CM)	114	123	100	132	166	180	176	135	109	146	209	182	203	117	112	124	126	138	131
14	140	137	132	122	122	125	132	130	135	146	288	279	100	125	120	156	270	286	31	27	112	69	82	123	121
15	121	99	85	106	117	123	127	138	140	(CM)	287	284	290	285	311	17	5	346	358	37	87	122	(CM)	51	67
16	99	107	113	131	135	133	135	122	112	114	127	151	141	136	90	76	112	120	102	99	61	76	102	121	113
17	121	116	104	117	129	119	139	103	94	93	102	111	112	113	100	94	109	110	103	93	178	97	84	134	111
18	128	122	118	128	135	136	134	132	117	102	195	349	330	176	108	59	77	300	24	37	30	327	104	96	99
19	(CM)	(CM)	81	(CM)	82	111	123	100	92	226	295	291	276	293	302	294	300	296	300	25	114	122	127	122	36
20	129	112	124	107	121	117	128	302	343	53	305	259	241	238	231	232	227	235	222	45	51	111	118	120	154
21	127	125	101	107	116	117	107	106	172	251	219	236	235	295	277	266	222	225	255	39	86	120	110	130	159
22	113	126	132	121	134	119	127	123	179	179	200	249	295	295	295	309	300	308	300	335	90	107	132	138	156
23	103	96	104	130	(CM)	125	122	124	122	167	184	186	212	231	243	292	285	109	148	98	120	120	109	109	139
24	129	129	130	127	135	137	126	102	172	180	231	227	224	192	294	321	352	94	301	186	116	122	107	104	148
25	91	106	127	128	93	104	325	130	107	101	126	184	218	227	247	262	200	318	145	119	111	90	80	266	135
26	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	313	48	102	90	48	(CM)	(CM)	()
27	(CM)	102	107	100	(CM)	98	95	90	354	285	278	287	287	295	301	294	300	307	348	46	112	125	114	121	26
28	121	124	109	96	98	124	133	127	133	317	289	303	299	302	299	301	286	289	268	25	47	106	124	109	82
29	104	95	110	119	93	(CM)	135	130	117	309	351	64	207	121	294	285	223	270	108	120	108	98	98	107	113
30	105	102	105	102	109	111	96	128	105	191	215	248	238	208	239	268	241	243	260	352	52	80	116	123	149
31	109	103	112	114	132	123	108	129	161	207	245	245	194	224	253	243	255	266	(CM)	117	118	118	111	121	157
PV	109	109	112	116	117	122	121	122	135	208	241	263	252	254	270	286	276	295	344	70	93	98	104	113	117

(11/20/81-RPI)

WIND DIRECTION @ 10M
DEGREES

CR-TRACT
TRAILER AA23
JULY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	PREV
1	158	158	148	163	223	(CM)	135	19	338	229	272	328	323	346	348	293	309	310	279	245	248	229	222	248	264
2	215	216	262	263	245	237	243	329	299	348	353	21	333	310	269	315	329	345	12	37	42	253	238	228	297
3	227	142	169	200	225	9	166	312	322	328	333	318	315	274	207	238	222	302	31	56	79	116	208	315	270
4	(CM)	183	220	236	135	161	76	65	358	336	353	25	353	13	346	327	1	348	25	67	148	164	171	270	19
5	175	73	125	141	170	153	99	87	34	71	83	(CM)	243	278	36	47	130	159	169	197	143	107	145	119	124
6	90	87	104	119	142	123	105	140	214	222	217	215	249	232	227	230	223	231	267	307	321	139	194	148	192
7	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	67
8	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	310	335	21	348	321	3	129	138	161	150	155	105	163
9	129	133	112	113	130	135	142	200	223	238	278	334	48	117	188	281	325	311	168	162	142	151	207	146	181
10	148	142	144	134	118	105	101	197	209	215	213	224	221	217	227	325	69	125	297	297	253	192	134	166	181
11	149	117	131	144	121	117	101	229	225	282	278	332	346	13	62	347	315	356	352	214	105	124	109	98	91
12	163	214	135	173	207	(CM)	110	120	171	199	183	191	135	246	253	218	326	330	352	329	140	156	158	160	181
13	157	94	103	174	181	172	148	178	181	194	216	210	206	199	184	233	229	221	203	183	185	109	88	108	176
14	129	144	338	215	231	185	152	107	14	29	27	11	336	46	158	92	339	335	231	251	185	225	209	(CM)	170
15	146	219	218	200	251	251	(CM)	292	4	51	17	335	325	350	1	354	23	15	21	100	148	151	203	325	337
16	103	122	132	134	128	142	133	129	151	132	172	175	182	161	172	52	121	131	129	116	122	159	161	156	139
17	114	151	113	152	146	168	167	176	176	159	109	126	151	180	175	172	149	149	148	131	235	121	159	116	151
18	121	138	200	156	173	169	171	118	207	191	260	278	218	203	180	166	178	237	225	207	0	353	131	158	185
19	147	215	(CM)	192	210	196	138	142	225	191	262	300	297	297	305	318	289	302	291	264	227	240	222	153	239
20	213	167	229	(CM)	158	221	121	40	280	215	226	229	250	249	235	232	236	228	231	222	211	276	215	164	221
21	176	197	202	215	87	76	99	218	221	227	228	230	268	215	258	260	238	233	318	279	222	(CM)	204	209	234
22	199	202	(CM)	103	126	118	126	197	217	222	209	242	281	291	319	333	326	321	318	279	222	(CM)	204	209	214
23	221	172	115	105	273	170	151	82	200	201	199	197	209	216	227	307	199	315	219	145	134	161	132	127	182
24	131	124	113	113	141	129	115	192	212	216	225	218	210	212	292	334	14	61	323	292	103	164	139	156	163
25	171	163	150	29	163	178	313	121	128	159	172	210	225	225	233	231	199	243	219	123	135	120	150	281	181
26	125	161	163	155	142	107	248	145	185	210	210	218	211	214	314	345	48	254	255	141	119	(CM)	163	148	178
27	176	305	163	233	242	184	135	333	298	338	339	336	330	329	315	316	323	343	350	15	140	163	176	228	296
28	220	163	120	138	183	176	118	70	300	292	298	308	306	315	316	285	271	296	253	222	217	153	(CM)	(CM)	247
29	207	119	107	105	138	146	147	86	73	321	196	91	178	148	303	338	275	157	173	158	172	173	183	187	154
30	198	234	83	202	199	79	99	109	194	209	211	214	248	236	240	237	258	227	239	213	212	211	40	281	212
31	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()

PV	163	159	145	160	172	153	132	131	226	225	239	260	264	255	263	298	289	292	254	194	166	166	173	172	193
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WIND DIRECTION @ 30M
DEGREES

CB-TRACT
TRAILER AA23
JULY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	PREV
1	131	138	130	143	197	275	122	28	338	225	267	321	318	339	338	288	306	312	289	242	246	235	219	297	272
2	(CM)	213	266	266	256	252	242	325	294	340	349	8	329	301	262	309	324	338	8	34	42	276	254	240	301
3	249	153	80	152	279	37	158	312	318	321	326	310	308	267	202	233	216	292	26	47	68	96	175	317	294
4	63	143	194	267	(CM)	117	66	56	351	331	346	19	346	6	336	319	356	348	18	59	124	135	136	315	22
5	155	69	113	120	142	129	104	81	33	64	74	240	239	274	28	42	122	150	160	186	183	90	132	113	118
6	165	192	105	108	121	111	98	135	206	216	211	208	244	226	221	225	217	225	262	304	318	104	161	154	187
7	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()
8	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()
9	113	124	107	107	119	132	134	191	215	231	274	326	41	103	179	270	320	311	148	146	133	138	176	128	64
10	129	147	135	119	108	98	94	190	202	211	208	215	215	210	219	321	61	115	263	293	251	191	132	153	148
11	141	118	132	130	112	104	97	199	220	274	271	325	340	6	55	342	313	0	351	209	93	111	99	75	82
12	129	196	130	145	202	207	105	113	161	189	175	185	115	237	245	212	324	328	351	323	121	134	145	149	167
13	151	101	102	164	171	169	160	176	173	186	210	203	198	188	160	225	223	213	197	180	182	126	107	103	171
14	120	131	337	164	243	183	133	101	11	25	23	8	326	39	144	81	331	336	228	254	192	234	220	(CM)	106
15	49	189	242	221	261	251	(CM)	283	3	45	13	329	319	341	355	349	15	11	17	87	115	124	144	300	348
16	107	115	125	125	109	136	124	118	142	123	161	165	172	148	157	46	116	125	123	110	122	149	151	158	131
17	134	221	100	119	125	144	157	165	166	152	98	117	141	167	157	161	140	139	140	123	229	106	146	102	142
18	116	115	178	176	148	140	169	114	190	188	257	270	211	195	170	155	169	229	220	203	264	347	119	136	178
19	115	170	31	160	169	172	136	138	220	188	255	293	291	291	299	311	284	295	285	276	230	259	222	140	234
20	117	131	168	149	130	132	116	43	292	209	222	224	245	243	229	227	231	223	226	217	202	256	211	201	202
21	156	175	(CM)	197	212	81	130	211	216	221	222	224	260	207	251	254	231	226	224	202	213	235	240	131	211
22	187	121	188	92	115	111	136	188	211	216	204	236	273	285	314	328	320	315	313	289	230	317	153	161	223
23	(CM)	158	123	100	333	175	113	94	194	194	191	188	201	210	222	303	190	313	216	138	125	149	131	120	168
24	123	115	108	98	123	110	112	144	205	208	219	210	204	206	289	329	7	55	317	294	92	155	133	151	152
25	163	153	142	69	115	160	304	114	119	149	163	204	219	219	228	225	194	240	212	113	124	117	109	(CM)	163
26	126	150	153	146	131	115	180	139	179	204	203	211	204	207	309	338	40	(CM)	251	129	110	101	120	127	155
27	149	284	130	158	248	230	117	328	301	331	335	331	323	323	308	309	316	337	344	16	115	131	130	122	322
28	194	194	109	114	136	141	127	68	291	284	291	302	298	309	309	277	265	289	246	220	215	188	192	193	232
29	197	152	85	89	119	130	123	82	64	317	188	82	169	140	297	330	262	144	159	143	155	161	173	180	143
30	189	200	184	197	194	190	101	100	183	201	207	207	243	231	234	232	251	220	234	206	202	203	343	289	210
31	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()

PV 141 153 131 140 157 146 127 125 217 219 233 252 259 248 257 293 284 294 250 185 163 153 157 147 175

WIND DIRECTION @ 60M
DEGREES

CR-TRACT
TRAILER AA23
JULY 1981
OCCIDENTAL OIL SHALE INC.

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	PREV
1	129	153	148	162	195	287	144	50	345	239	275	329	328	349	347	300	318	325	311	264	271	267	256	336	291
2	5	255	284	281	276	278	264	329	303	347	0	14	338	310	274	318	333	348	18	50	58	302	284	277	314
3	287	236	94	136	279	20	180	320	327	330	338	319	316	276	213	242	224	299	36	61	76	101	159	304	303
4	55	144	166	310	270	203	101	68	1	342	353	30	355	12	344	329	3	5	29	73	126	135	141	235	29
5	155	90	139	146	141	124	139	107	46	76	96	264	251	279	33	47	133	163	172	191	195	104	146	172	135
6	197	211	122	126	129	130	126	155	215	223	220	218	253	233	228	233	223	233	269	311	325	98	158	147	198
7	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()
8	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()
9	135	148	131	132	141	153	153	198	221	239	295	333	51	111	189	278	332	326	143	151	145	149	178	152	163
10	152	166	158	139	138	124	124	205	210	220	217	221	223	217	224	329	71	128	248	299	264	216	162	162	189
11	187	147	161	136	129	120	122	196	229	278	279	336	350	14	67	352	326	9	358	215	103	120	115	97	110
12	140	202	159	177	225	225	153	133	173	197	189	202	129	247	249	221	335	339	358	329	126	134	156	161	185
13	167	134	124	174	186	186	184	195	187	197	218	211	206	197	161	228	231	223	209	197	196	172	172	122	187
14	138	153	331	86	274	205	152	123	35	37	34	11	329	49	150	87	338	349	247	274	196	270	248	(CM)	19
15	30	77	301	269	284	268	258	274	21	55	26	341	329	348	3	358	26	21	25	95	111	125	145	217	1
16	130	138	151	151	127	161	159	136	155	137	170	175	181	157	161	161	129	138	134	122	140	160	161	180	147
17	177	265	118	123	122	141	173	175	179	169	115	133	154	175	161	171	156	156	157	142	242	95	159	125	155
18	141	119	183	200	165	156	175	127	187	205	265	276	216	207	179	166	180	236	231	225	230	356	129	146	189
19	118	157	47	156	174	172	155	156	230	205	262	302	301	301	308	321	298	306	297	299	268	297	(CM)	117	253
20	127	132	142	160	134	149	122	86	304	219	230	234	253	251	237	234	239	232	235	233	227	276	240	241	213
21	190	188	199	207	226	228	206	221	227	229	230	231	266	217	258	260	239	234	232	223	240	270	274	140	227
22	199	176	184	180	134	107	176	199	220	224	215	243	282	292	322	336	331	324	322	304	264	323	66	101	244
23	109	145	140	126	158	217	126	124	201	202	198	195	211	218	233	310	211	324	231	154	141	164	156	149	177
24	151	141	142	113	137	132	139	194	214	217	227	215	211	215	295	339	18	69	325	307	105	166	148	169	171
25	176	165	157	118	114	171	293	122	131	159	176	212	226	227	237	232	203	249	229	127	136	136	107	58	172
26	143	163	164	162	146	146	166	152	189	212	212	219	212	215	320	349	50	27	259	140	133	143	137	154	168
27	167	180	130	142	268	273	150	341	311	343	346	341	332	333	317	317	327	347	353	26	114	134	137	145	339
28	158	201	180	121	129	150	169	92	306	294	301	311	307	319	319	288	278	299	258	248	245	219	203	207	245
29	214	205	(CM)	77	120	132	129	113	79	338	209	96	183	153	308	336	273	155	168	152	163	168	182	187	160
30	194	202	205	212	207	209	122	115	194	210	214	216	249	239	242	240	259	230	243	224	221	222	323	318	222
31	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()
PV	154	166	153	152	170	172	156	146	223	228	241	261	266	257	266	301	294	310	260	202	176	166	166	160	193

WIND DIRECTION @10M

C-B TRACT
MRI AD42
July, 1981

Refer to pages II-365 through II-377

Less than 50% data reported

Mechanical Recordering Instrument was removed and replaced by an R.A. solar powered data acquisition system installed July 25, 1981. Monitoring of data and maintenance of the instrumentation was contracted to WestAq Corp. upon purchase of the equipment.

WIND DIRECTION @10M

C-B TRACT
MPI AD56
July, 1981

DATA NOT AVAILABLE AT REPORT TIME

WIND DIRECTION AND
VECTOR AVERAGE VELOCITY (DEG & MPS)
10 METER LEVEL

CR-TRACT
TRAILER AR20
JULY 1961
OCCIDENTAL OIL SHALE, INC.

DAY	HOUR (LOCAL STANDARD TIME)																								VECTOR		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DIR	VEL	
1	111	111	95	78	90	130	123	202	248	245	274	301	292	338	320	279	295	301	***	***	***	***	***	***	***	294	0.5
2	***	319	330	***	***	***	344	320	306	289	329	298	349	284	277	297	305	328	4	75	86	94	102	102	312	1.4	
3	106	111	124	134	125	123	123	117	249	278	287	294	287	296	199	246	205	62	19	24	105	98	111	110	189	0.3	
4	111	127	123	113	121	127	126	130	186	323	313	358	318	330	316	287	318	0	11	30	58	90	112	110	32	0.5	
5	98	101	122	127	103	124	133	146	305	218	144	275	266	287	268	196	95	189	138	84	107	121	123	135	131	1.0	
6	137	127	114	135	130	138	136	110	123	192	205	236	230	248	200	220	224	230	288	297	302	71	103	134	177	1.5	
7	126	126	112	107	107	95	96	127	171	206	191	218	214	223	245	243	277	282	347	170	105	22	335	4	200	0.9	
8	31	39	109	109	109	106	109	289	289	284	277	281	281	271	273	279	319	335	102	111	107	111	126	122	284	0.0	
9	108	111	120	137	139	128	122	111	157	242	264	286	37	***	111	320	324	309	125	118	104	101	135	91	116	1.2	
10	86	132	121	134	137	137	127	91	115	166	197	249	210	178	272	345	110	113	324	292	3	29	77	139	134	0.8	
11	125	111	129	120	130	137	132	107	87	313	303	298	292	352	346	359	282	305	327	172	111	123	357	51	64	0.2	
12	45	59	121	127	125	121	139	138	122	117	114	85	92	354	282	1	14	350	289	267	114	125	77	104	94	0.6	
13	94	103	111	69	76	***	114	123	100	132	166	180	176	135	109	146	209	182	203	117	112	124	126	138	135	1.5	
14	140	137	132	122	122	125	132	130	135	146	288	279	100	125	120	156	270	286	31	27	112	69	82	123	123	0.7	
15	121	99	85	106	117	123	127	138	140	***	287	284	290	285	311	17	5	346	358	37	87	122	***	51	34	0.3	
16	99	107	113	131	135	133	135	122	112	114	127	151	141	136	90	76	112	120	102	99	61	76	102	121	117	2.4	
17	121	116	104	117	129	119	139	103	94	93	102	111	112	113	100	94	109	110	103	93	178	97	84	134	108	2.6	
18	128	122	118	128	135	136	134	132	117	102	195	349	330	176	108	59	77	300	24	37	30	327	104	96	109	1.0	
19	***	***	81	***	82	111	123	100	92	226	295	291	276	293	302	294	300	296	300	25	114	122	127	122	292	1.5	
20	129	112	124	107	121	117	128	302	343	53	305	259	241	238	231	232	227	235	222	45	51	111	118	120	218	1.0	
21	127	125	101	107	116	117	107	106	172	251	219	236	235	295	277	266	222	225	255	39	86	120	110	130	189	0.8	
22	113	126	132	121	134	119	127	123	179	179	200	249	295	295	295	309	300	308	300	335	90	107	132	138	237	0.5	
23	103	96	104	130	***	125	122	124	122	167	184	186	212	231	243	292	285	109	148	98	120	120	109	152	0.9		
24	129	129	130	127	135	137	126	102	172	180	231	227	224	192	294	321	352	94	301	186	116	122	107	104	140	1.1	
25	91	106	127	128	93	104	325	130	107	101	126	184	218	227	247	262	200	318	145	119	111	90	80	266	151	1.1	
26	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	313	48	102	90	48	***	***	***	***	
27	***	102	107	100	***	98	95	90	354	285	278	287	287	295	301	294	300	307	348	46	112	125	114	121	308	0.9	
28	121	124	109	96	98	126	133	127	133	317	289	303	299	302	299	301	286	289	268	25	47	106	124	109	299	1.2	
29	104	95	110	119	93	***	135	130	117	309	351	64	207	121	294	285	223	270	108	120	108	98	98	107	112	0.9	
30	105	102	105	102	109	111	96	128	105	191	215	248	238	208	239	268	241	243	260	352	52	80	116	123	196	1.0	
31	109	103	112	114	132	123	108	129	161	207	245	245	194	224	253	243	255	266	***	117	118	118	111	121	166	1.2	
VD	114	114	115	120	123	125	125	121	128	196	242	265	256	256	270	290	274	290	349	88	104	102	106	118	144		
VV	1.7	1.4	1.3	1.6	1.9	1.9	1.7	1.4	0.8	0.8	1.1	1.4	1.7	1.6	1.7	2.0	1.5	0.8	0.4	1.1	1.6	1.3	1.4	1.4		0.5	

TOTAL NUMBER OF OBSERVATIONS = 703

NOTE: *** = MISSING DATA

WIND DIRECTION AND
VECTOR AVERAGE VELOCITY (DEG & MPS)
10 METER LEVEL

C9-TRACT
TRAILER AA23
JULY 1981
OCCIDENTAL OIL SHALE, INC.

DAY	HOUR (LOCAL STANDARD TIME)										VECTOR																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DIR	VEL	
1	158	158	148	163	223	***	135	19	338	229	272	328	323	346	348	293	309	310	279	245	248	229	222	248	273	0.8	
2	215	216	262	263	245	237	243	329	299	348	353	21	333	310	269	315	329	345	12	37	42	253	238	228	310	1.4	
3	227	142	169	200	225	9	166	312	322	328	333	318	315	274	207	238	222	302	31	56	79	116	208	315	259	0.6	
4	***	183	220	236	135	161	76	65	358	336	353	25	353	13	346	327	1	348	25	67	148	164	171	270	11	0.9	
5	175	73	125	141	170	153	99	87	34	71	83	***	243	278	36	47	130	159	169	197	143	107	145	119	128	1.0	
6	90	87	104	119	142	123	105	140	214	222	217	215	249	232	227	230	223	231	267	307	321	139	194	188	216	1.8	
7	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	
8	***	***	***	***	***	***	***	***	***	***	***	***	310	335	21	348	321	3	129	138	161	150	155	105	118	0.9	
9	129	133	112	113	130	135	142	200	223	238	278	334	48	117	188	281	325	311	168	162	142	151	207	146	162	1.0	
10	148	142	144	134	118	105	101	197	209	215	213	224	221	217	227	325	69	125	270	297	253	192	134	166	197	1.2	
11	149	117	131	144	121	117	101	229	225	282	278	332	346	13	62	347	315	356	352	214	105	124	109	98	75	0.3	
12	163	214	135	173	207	***	110	120	171	199	183	191	135	246	253	218	326	330	352	329	140	156	158	160	188	1.0	
13	157	94	103	174	181	172	185	148	178	181	194	216	210	206	199	184	233	229	221	203	183	185	109	88	108	185	1.8
14	129	144	338	215	231	182	152	107	14	29	27	11	336	46	158	92	339	335	231	251	185	225	209	***	160	0.1	
15	146	219	218	200	251	251	***	292	4	51	17	335	325	350	1	354	23	15	21	100	148	151	203	325	2	0.6	
16	103	122	132	134	128	142	133	129	151	132	172	175	182	161	172	52	121	131	129	116	122	159	161	156	137	2.2	
17	114	151	113	152	146	168	167	176	176	159	109	126	151	180	175	172	149	149	148	131	235	121	159	116	157	2.1	
18	121	138	200	156	173	169	171	118	207	191	260	278	218	203	180	166	178	237	225	207	0	353	131	158	185	1.2	
19	147	215	***	192	210	196	138	142	225	191	262	300	297	297	305	318	289	302	291	264	227	240	222	153	275	2.0	
20	213	167	229	***	158	221	121	40	280	215	226	229	250	249	235	232	236	228	231	222	211	276	215	164	230	2.8	
21	176	197	202	215	87	76	99	218	221	227	228	230	268	215	258	260	238	233	229	212	214	218	223	155	230	2.1	
22	199	202	***	103	126	118	126	197	217	222	209	242	281	291	319	333	326	321	318	279	222	***	204	209	270	1.4	
23	221	172	115	105	278	170	151	82	200	201	199	197	209	216	227	307	199	315	219	145	134	161	132	127	194	1.6	
24	131	124	113	113	141	129	115	192	212	216	225	218	210	212	292	334	14	61	323	292	103	164	139	156	170	0.9	
25	171	163	150	29	163	178	313	121	128	159	172	210	225	225	233	231	199	243	219	123	135	120	150	281	190	2.7	
26	125	161	163	155	142	107	248	145	185	210	210	218	211	214	314	345	48	254	255	141	119	***	163	148	188	2.1	
27	176	305	163	233	242	184	135	333	298	338	339	336	330	329	315	316	323	343	350	15	140	163	176	228	319	1.0	
28	220	163	120	138	183	176	118	70	300	292	298	308	306	315	316	285	271	296	253	222	217	153	***	***	287	1.8	
29	207	119	107	105	138	146	147	86	73	321	196	91	178	148	303	338	275	157	173	158	172	173	183	187	157	1.3	
30	198	234	83	202	199	79	99	109	194	209	211	214	248	236	240	237	258	227	239	213	212	211	40	281	224	2.5	
31	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	
VD	155	154	141	152	164	148	125	143	205	219	229	249	261	249	263	292	276	274	233	175	168	161	169	157	206		
VV	1.2	1.1	1.4	1.3	1.2	1.1	0.9	0.8	1.3	1.5	1.8	1.6	2.0	1.9	2.0	2.2	1.3	1.0	0.9	1.1	1.5	1.5	1.2	0.9		0.9	

TOTAL NUMBER OF OBSERVATIONS = 671

NOTE: *** = MISSING DATA

WIND DIRECTION AND
VECTOR AVERAGE VELOCITY (DEG & MPS)
30 METER LEVEL

CR-TRACT
TRAILER AA23
JULY 1981
OCCIDENTAL OIL SHALE, INC.

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	VECTOR DIR VEL
1	131	138	130	143	197	275	122	28	338	225	267	321	318	339	338	288	306	312	289	242	246	235	219	297	272 0.7
2	***	213	266	266	256	252	242	325	294	340	349	8	329	301	262	309	324	338	8	34	42	276	254	240	309 2.0
3	249	153	80	152	279	37	158	312	318	321	326	310	308	267	202	233	216	292	26	47	68	96	175	317	259 0.6
4	63	143	194	267	***	117	66	56	351	331	346	19	346	6	336	319	356	348	18	59	124	135	136	315	18 1.2
5	155	69	113	120	142	129	104	81	33	64	74	240	239	274	28	42	122	150	160	186	183	90	132	113	122 1.4
6	165	192	105	108	121	111	99	135	206	216	211	208	244	226	221	225	217	225	262	304	318	104	161	154	207 2.4
7	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
8	***	***	***	***	***	***	***	***	***	***	***	***	304	327	17	342	315	357	123	131	151	142	146	107	115 1.4
9	113	126	107	107	119	132	134	191	215	231	274	326	41	103	179	270	320	311	148	146	133	138	176	128	145 1.5
10	120	147	135	118	108	98	94	190	202	211	208	215	215	210	219	321	61	115	263	293	251	191	132	153	181 1.6
11	161	118	132	130	112	104	97	199	220	274	271	325	340	6	55	342	313	0	351	209	93	111	99	75	79 0.6
12	129	196	130	145	202	207	105	113	161	189	175	185	115	237	245	212	324	328	351	323	121	134	145	149	174 1.4
13	151	101	102	164	171	169	160	176	173	186	210	203	198	188	160	225	223	213	197	180	182	126	107	103	177 2.6
14	120	131	337	164	243	183	133	101	11	25	23	8	326	39	144	81	331	336	228	254	182	234	220	***	138 0.1
15	49	189	242	221	261	251	***	283	3	45	13	329	319	341	355	349	15	11	17	87	115	124	144	300	11 0.9
16	107	115	125	125	109	136	124	118	142	123	161	165	172	148	157	46	116	125	123	110	122	149	151	158	130 3.1
17	134	221	100	119	125	144	157	165	166	152	98	117	141	167	157	161	140	139	140	123	229	106	146	102	145 2.9
18	116	115	178	176	148	140	169	114	190	188	257	270	211	195	170	155	169	229	220	203	264	347	119	136	171 1.6
19	115	170	31	160	169	172	136	138	220	188	255	293	291	291	299	311	284	295	285	276	230	259	222	140	270 2.4
20	117	131	168	149	130	132	116	43	292	209	222	224	245	243	229	227	231	223	226	217	202	256	211	201	221 3.7
21	156	175	***	197	212	81	130	211	216	221	222	224	260	207	251	254	231	226	224	202	213	235	240	131	224 3.0
22	187	121	188	92	115	111	136	188	211	216	204	236	273	285	314	328	320	315	313	289	230	317	153	161	269 1.7
23	***	154	123	100	333	175	113	94	194	194	191	188	201	210	222	303	190	313	216	138	125	149	131	120	181 2.3
24	123	115	108	98	123	110	112	184	205	208	219	210	204	206	289	329	7	55	317	294	92	155	133	151	151 1.4
25	163	153	142	69	115	160	304	114	119	149	163	204	219	219	228	225	194	240	212	113	124	117	109	***	179 3.9
26	125	150	153	146	131	115	180	138	179	204	203	211	204	207	309	338	40	***	251	129	110	101	120	127	173 2.8
27	149	284	130	158	248	230	117	328	301	331	335	331	323	323	308	309	316	337	344	16	115	131	130	122	325 1.1
28	194	194	109	114	136	141	127	68	291	284	291	302	298	309	309	277	265	289	246	220	215	188	192	193	278 2.2
29	197	152	85	89	119	130	123	82	64	317	188	82	169	140	297	330	262	144	159	143	155	161	173	180	148 2.1
30	189	200	184	197	194	190	101	100	183	201	207	207	243	231	234	232	251	220	234	206	202	203	343	289	216 3.8
31	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
VD	144	142	129	136	144	136	121	142	197	213	222	242	256	243	256	285	271	272	225	166	156	146	151	143	192
VV	1.9	1.8	1.9	2.0	1.9	1.6	1.4	1.1	1.7	2.0	2.3	2.1	2.6	2.6	2.5	2.8	1.7	1.3	1.3	1.6	2.3	2.1	1.9	1.5	1.1

TOTAL NUMBER OF OBSERVATIONS = 676

NOTE: *** = MISSING DATA

CR-TRACT
TRAILER AA23
JULY 1981
OCCIDENTAL OIL SHALE, INC.

WIND DIRECTION AND
VECTORS AVERAGE VELOCITY (DEG & MPS)
60 METER LEVEL

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	129	153	148	162	195	287	144	50	345	239	275	329	328	349	347	300	318	325	311	264	271	267	256	336	296	1.0
2	5	255	284	281	276	278	264	329	303	347	0	14	338	310	274	318	333	348	18	50	58	302	284	277	321	2.3
3	287	236	94	136	279	20	180	320	327	330	338	319	316	276	213	242	224	299	36	61	76	101	159	304	274	0.6
4	55	144	166	310	270	203	101	68	1	342	353	30	355	12	344	329	3	5	29	73	126	135	141	235	29	1.3
5	155	90	139	146	141	124	139	107	46	76	46	264	251	279	33	47	133	163	172	191	195	104	146	172	142	1.4
6	197	211	122	126	129	130	126	155	215	223	220	218	253	233	228	233	223	233	269	311	325	98	158	147	218	2.8
7	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
8	***	***	***	***	***	***	***	***	***	***	***	***	314	336	25	351	325	7	136	143	164	158	162	133	135	1.6
9	135	148	131	132	141	153	153	198	221	239	245	333	51	111	189	278	332	326	143	151	145	149	178	152	159	1.9
10	152	166	158	139	138	124	124	195	210	220	217	223	217	224	249	329	71	128	248	299	264	216	162	162	193	2.2
11	187	147	161	136	129	120	122	196	229	278	279	336	350	14	67	352	326	9	358	215	103	120	115	97	100	0.6
12	140	202	159	177	225	225	153	133	173	197	189	202	129	247	249	221	335	339	358	329	126	134	156	161	191	1.7
13	167	134	124	174	186	186	184	195	187	197	218	211	206	197	161	228	231	223	209	197	196	172	172	122	191	3.4
14	138	153	331	86	274	205	152	123	35	37	34	11	329	49	150	87	338	349	247	274	196	270	248	***	237	0.1
15	30	77	301	269	284	268	258	274	21	55	26	341	329	348	3	358	26	21	25	95	111	125	145	217	15	1.1
16	130	138	151	151	127	161	159	136	155	137	170	175	181	157	161	61	129	138	134	122	140	160	161	180	146	3.4
17	177	265	118	123	122	141	173	175	179	169	115	133	154	175	161	171	156	156	157	142	242	95	159	125	159	3.2
18	141	119	183	200	165	156	175	127	187	205	265	276	216	207	179	166	180	236	231	225	230	356	129	146	187	1.9
19	118	157	47	156	174	172	155	156	230	205	262	302	301	301	308	321	298	306	297	299	268	297	***	117	281	2.6
20	127	132	142	160	134	149	122	86	304	219	230	234	253	251	237	234	239	232	235	233	227	276	240	241	230	4.1
21	190	188	199	207	226	228	206	221	227	229	230	231	266	217	258	260	239	234	322	308	264	240	274	140	234	3.6
22	199	176	184	180	134	107	176	199	220	224	215	243	282	292	322	336	331	324	322	308	264	323	66	101	278	2.1
23	109	145	140	126	158	217	126	124	201	202	198	195	211	218	233	310	211	324	231	154	141	164	156	149	192	2.7
24	151	141	142	113	137	132	139	194	214	217	227	215	211	215	295	339	18	69	325	307	105	166	148	169	170	1.8
25	176	165	157	118	114	171	293	122	131	159	176	212	226	227	237	232	203	249	229	127	136	136	107	58	189	4.3
26	143	163	164	162	148	146	166	152	189	212	212	219	212	215	320	349	50	27	259	140	133	143	143	154	183	3.4
27	167	180	130	142	268	273	150	341	311	343	346	341	332	333	317	317	327	347	353	26	114	134	137	145	343	1.2
28	158	201	180	121	129	150	169	92	306	294	301	311	307	319	319	288	278	299	258	248	245	219	203	207	284	2.6
29	214	205	***	77	120	132	129	113	79	328	209	96	183	153	308	336	273	155	168	152	163	168	182	187	161	2.6
30	198	202	205	212	207	209	122	115	194	210	214	216	249	239	242	240	259	230	243	224	221	222	323	318	226	4.8
31	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
VD	161	162	153	155	162	158	151	160	204	221	232	250	264	253	264	294	281	282	241	187	171	160	163	162	205	
VV	2.3	2.3	2.1	2.1	2.0	1.9	1.5	1.4	2.0	2.2	2.6	2.3	2.8	2.7	2.7	3.0	1.8	1.4	1.6	1.8	2.5	2.1	2.3	1.9		1.4

TOTAL NUMBER OF OBSERVATIONS = 681

NOTE: *** = MISSING DATA

SIGMA HORIZ. WIND DIR. @10M
DEGREES

CB-TRACT
TRAILER AH20
JULY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	1	0	2	1	4	3	5	5	2	3	7	11	10	10	11	8	3	1	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	5	11
2	(CM)	2	1	1	(CM)	(CM)	1	1	6	11	17	23	21	14	13	13	13	19	5	3	0	0	0	1	8	23
3	1	1	3	1	0	1	1	0	7	8	23	17	16	11	14	17	15	7	1	1	5	4	1	2	7	23
4	0	2	1	0	2	1	3	0	3	14	24	27	31	29	18	18	23	13	7	3	1	3	0	1	10	31
5	2	3	5	2	5	5	4	11	3	9	13	35	22	17	20	15	0	12	8	6	1	3	4	3	9	35
6	4	2	1	6	5	5	5	8	14	17	21	32	26	24	19	24	19	18	10	9	2	7	4	3	12	32
7	5	5	3	1	3	1	2	2	12	23	22	28	25	23	24	29	16	12	10	28	1	9	12	3	12	29
8	1	2	3	0	0	1	1	10	4	9	8	13	11	11	14	16	21	20	11	8	9	8	3	3	8	21
9	5	6	5	6	5	5	6	9	18	23	4	1	(CM)	(CM)	11	20	15	12	21	12	9	7	1	1	9	23
10	2	3	2	5	6	6	7	5	9	14	20	26	27	19	13	13	4	3	9	6	2	1	3	1	9	27
11	1	1	2	3	2	6	4	3	11	11	15	13	18	28	21	13	6	1	2	24	7	10	7	0	9	28
12	0	2	3	2	5	2	2	3	1	4	6	4	2	20	12	8	0	4	8	8	4	5	6	7	5	20
13	6	3	4	2	0	(CM)	3	2	3	6	19	15	13	6	6	12	14	8	5	1	5	2	3	5	6	19
14	4	3	1	1	2	1	1	0	0	1	11	9	11	20	11	18	7	3	4	1	5	2	2	1	5	20
15	1	4	0	2	3	4	2	1	1	(CM)	7	8	10	22	32	34	28	17	13	3	2	1	(CM)	6	9	34
16	2	2	2	3	4	3	3	3	6	7	7	8	7	4	2	5	8	9	7	6	3	3	1	1	4	9
17	0	1	1	3	3	2	1	6	6	8	9	6	8	8	7	9	8	7	9	6	17	15	12	4	7	17
18	5	3	4	6	5	3	3	2	0	7	21	13	16	12	14	15	14	13	3	2	4	24	12	5	8	24
19	(CM)	(CM)	12	(CM)	1	4	5	2	11	26	14	12	14	12	14	15	14	9	7	6	13	4	4	8	9	26
20	6	3	4	8	10	3	4	9	2	4	13	19	24	28	26	20	21	23	19	8	8	4	3	4	12	28
21	4	6	5	3	6	7	5	4	11	17	21	20	25	19	26	35	20	19	12	4	4	7	8	6	12	35
22	4	5	8	6	8	10	7	2	16	15	33	20	14	18	14	19	14	11	11	6	2	5	5	8	11	33
23	5	3	2	4	(CM)	2	4	1	2	23	21	36	30	29	28	12	25	28	19	9	9	6	5	3	13	36
24	5	8	5	5	5	4	5	8	16	20	21	29	22	20	10	15	20	17	12	12	7	18	13	13	13	29
25	12	9	1	1	11	9	4	5	3	11	15	16	27	23	23	19	21	18	25	7	4	8	5	13	12	27
26	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	12	2	7	2	3	(CM)	(	1	12
27	(CM)	5	1	1	(CM)	1	0	0	8	9	13	18	24	28	20	13	13	14	10	7	4	3	2	5	9	28
28	6	8	4	2	2	3	4	2	7	12	16	13	16	15	15	12	11	10	8	6	1	8	5	4	8	16
29	5	6	8	7	5	(CM)	12	7	2	13	20	17	28	18	19	19	28	17	5	3	5	4	4	2	11	28
30	4	1	4	6	9	4	2	2	2	18	20	19	22	25	21	20	19	16	12	5	1	3	3	3	10	25
31	2	2	4	5	7	5	3	5	8	25	21	24	24	23	19	24	25	18	(CM)	5	4	4	4	6	12	25
AV	3	3	3	3	4	4	4	4	6	13	16	18	19	18	17	17	15	13	9	7	5	6	5	4	9	
PK	12	9	12	8	11	10	12	11	18	26	33	36	30	31	32	35	28	28	25	28	17	24	13	13		36

(11/20/81-RPI)

SIGMA HORIZ. WIND DIR. @ 10M
DEGREES

CR-TRACT
TRAILER AA23
JULY 1981
OCCIDENTAL OIL SHALE INC.

111555
HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	8	6	6	5	4	(CM)	17	15	34	16	12	15	12	12	12	8	9	9	11	5	4	4	4	7	10	34
2	18	5	5	5	5	4	8	25	13	21	28	37	24	23	10	10	11	14	11	6	12	7	4	4	13	37
3	5	10	11	7	8	13	21	29	19	34	40	27	26	21	9	10	9	24	7	8	9	7	7	14	16	40
4	(CM)	11	7	13	18	10	16	32	25	21	19	15	24	22	30	24	21	20	9	7	6	6	11	12	16	32
5	18	7	6	7	8	5	9	11	28	34	35	(CM)	41	38	33	31	23	9	8	5	22	10	5	7	17	41
6	13	15	4	6	9	7	8	18	13	12	14	14	19	17	31	16	16	17	10	9	8	6	5	12	12	31
7	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
8	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
9	7	7	9	8	8	8	14	17	17	15	25	24	36	32	20	32	22	13	10	9	9	9	9	10	18	32
10	12	22	6	9	8	8	11	25	12	15	17	19	17	18	28	12	9	13	15	12	7	7	15	18	15	36
11	16	10	14	8	9	8	9	30	17	18	25	11	24	26	24	10	18	17	11	10	7	9	9	14	14	28
12	9	12	7	12	11	(CM)	25	10	9	8	7	21	48	31	18	17	17	8	21	13	9	11	8	7	15	48
13	11	24	24	8	14	9	15	15	14	15	13	12	11	17	39	27	16	20	8	5	15	19	23	7	16	39
14	7	10	23	11	13	7	11	14	19	34	23	30	31	30	34	30	24	20	8	9	15	3	10	(CM)	18	34
15	9	4	21	17	8	16	(CM)	26	30	27	28	24	23	23	22	25	20	20	14	6	6	7	22	22	18	30
16	8	10	7	9	8	6	7	11	9	10	17	13	14	17	28	16	9	9	9	7	7	6	6	10	11	28
17	11	15	9	7	6	5	9	9	8	15	16	11	12	7	6	7	11	17	8	7	12	15	24	8	11	24
18	8	7	8	12	7	7	14	15	42	33	27	42	31	9	9	11	8	13	9	5	21	12	22	16	16	42
19	11	14	(CM)	8	28	16	15	12	22	33	15	13	10	11	13	15	18	11	9	8	5	5	4	17	14	33
20	17	18	10	(CM)	13	23	8	14	34	39	15	16	16	12	13	12	13	11	8	6	6	22	6	27	16	39
21	5	10	14	21	32	14	26	30	14	14	13	19	27	29	28	18	14	11	9	10	17	5	24	7	17	32
22	20	9	(CM)	9	7	17	14	15	14	13	25	23	19	25	14	14	17	11	12	10	5	(CM)	7	10	14	25
23	24	9	10	34	11	8	18	33	21	13	18	19	20	16	21	10	22	30	12	8	8	9	13	10	17	34
24	6	6	7	8	7	7	8	13	12	15	18	24	18	17	11	12	12	9	11	19	8	15	12	17	12	24
25	8	8	10	17	10	8	20	16	16	21	13	14	14	13	15	13	10	12	13	8	8	13	10	18	13	21
26	19	8	9	13	9	15	23	15	13	10	11	12	15	15	14	12	16	13	18	11	21	(CM)	11	11	14	23
27	8	28	6	8	3	6	12	30	29	24	23	17	19	25	17	22	16	13	10	9	7	6	13	12	15	30
28	18	19	8	4	16	7	16	17	41	21	13	12	12	15	14	17	19	15	9	5	4	12	(CM)	(CM)	14	41
29	20	18	9	6	18	12	15	19	20	39	19	24	22	16	30	26	40	20	5	4	4	4	6	15	17	40
30	17	26	21	10	9	17	14	16	28	14	18	19	14	13	15	16	14	10	8	5	4	12	32	18	15	32
31	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()

AV	12	12	10	10	11	10	14	19	20	21	20	20	22	20	20	17	16	15	11	8	9	9	12	13	15	
PK	24	28	24	34	32	23	26	33	42	39	40	42	48	38	39	32	40	31	21	19	22	22	32	27	48	

SIGMA HORIZ. WIND DIR. @ 30M
DEGREES

CB-TRACT
TRAILER AA23
JULY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	6	4	4	3	5	11	15	13	29	15	12	13	10	10	11	8	7	8	14	5	4	4	4	10	9	29
2	(CM)	7	5	5	4	4	25	24	12	19	20	26	22	21	8	9	9	11	10	5	10	8	7	6	12	26
3	9	13	7	5	12	22	32	38	16	32	33	26	26	20	8	9	8	21	7	5	7	7	9	13	16	38
4	9	4	11	14	(CM)	13	10	22	20	20	15	13	20	19	26	20	22	18	8	5	4	3	6	15	14	26
5	11	14	4	3	5	4	6	11	23	28	25	42	37	34	25	28	20	8	7	5	22	22	5	11	17	42
6	23	28	5	4	7	5	7	15	13	11	11	13	16	15	26	15	15	16	8	8	7	5	4	6	12	28
7	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
8	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
9	5	5	9	6	6	7	13	16	15	15	26	21	29	31	19	18	8	12	19	11	5	5	17	20	14	31
10	8	19	5	6	6	5	9	27	11	14	16	16	17	22	22	11	15	15	15	9	7	8	7	9	12	27
11	23	8	11	6	7	6	8	31	15	17	24	10	21	24	24	8	15	23	17	17	7	6	5	16	15	31
12	6	7	6	7	7	30	19	8	8	8	6	18	38	28	15	15	15	18	17	11	8	12	6	4	13	38
13	8	23	21	13	14	8	17	13	15	14	12	11	10	25	47	30	16	19	7	5	8	24	35	5	16	47
14	5	7	12	13	11	6	7	15	19	24	14	23	26	24	35	28	19	20	13	9	8	5	20	(CM)	16	35
15	11	14	23	18	16	21	(CM)	26	24	21	24	18	20	20	18	22	18	13	12	5	6	5	9	25	17	26
16	10	9	8	8	5	7	10	10	7	8	15	13	12	14	25	14	8	7	8	5	6	4	4	6	9	25
17	11	20	9	4	5	4	5	8	6	14	15	9	9	5	5	6	10	16	7	6	11	13	25	6	10	25
18	6	6	8	15	7	5	14	11	43	35	32	42	35	8	7	9	7	11	7	4	34	9	19	12	16	43
19	9	16	10	9	22	8	11	11	17	35	13	13	10	11	13	13	15	10	9	9	6	8	14	17	13	35
20	15	8	17	23	6	18	6	13	30	35	14	16	14	11	12	11	12	11	7	4	3	17	7	14	14	35
21	8	10	(CM)	28	56	38	32	18	13	12	12	16	25	27	26	16	12	10	9	7	20	7	22	6	19	56
22	15	13	23	14	6	16	14	15	12	12	22	21	18	24	13	12	14	10	10	13	8	13	12	22	15	24
23	(CM)	13	6	4	13	7	13	32	18	13	16	16	18	14	19	9	22	31	10	6	6	6	11	8	14	32
24	5	5	7	4	5	5	7	12	11	13	14	21	16	15	9	9	11	8	10	18	7	14	13	13	11	21
25	7	7	8	17	16	8	21	14	13	17	12	12	13	12	13	11	9	11	11	6	6	9	8	(CM)	11	21
26	16	7	8	12	6	17	34	13	11	9	11	11	13	13	12	11	16	(CM)	17	11	13	25	6	5	13	34
27	3	21	4	14	4	17	9	29	30	20	19	13	17	24	16	20	13	11	8	6	5	3	7	10	13	30
28	29	16	11	4	11	9	13	14	43	21	12	11	12	14	13	17	19	14	7	4	2	27	34	32	16	43
29	13	37	21	9	9	7	12	15	15	38	19	26	18	13	27	23	39	15	5	3	3	2	4	8	16	39
30	8	37	47	9	8	31	18	12	25	14	15	17	13	12	14	15	12	8	8	4	3	9	26	17	16	47
31	(WP)	(WP)	(WP)	(WP)	(WP)	(WP)	(WP)	(WP)	(WP)	(WP)	(WP)	(WP)	(WP)	(WP)	(WP)	(WP)	(WP)	(WP)	(WP)	(WP)	(WP)	(WP)	(WP)	(WP)	()	()
AV	11	14	11	10	10	12	14	17	18	19	17	18	19	18	18	15	15	14	10	7	8	10	12	12	14	56
PK	29	37	47	28	56	38	34	38	43	38	33	42	38	34	47	30	39	31	19	18	34	27	35	32		

(11/20/81-RPI)

SIGMA HORIZ. WIND DIR. @ 60M
DEGREES

CR-TRACT
TRAILER AA23
JULY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	4	3	3	4	7	12	16	18	27	14	12	12	9	9	11	7	7	7	16	4	4	6	6	9	9	27
2	13	16	5	4	4	4	8	23	11	14	20	24	20	18	7	8	8	10	10	4	6	6	5	7	11	24
3	7	11	11	4	9	15	25	39	16	24	30	24	22	18	7	8	6	21	9	5	8	6	9	16	15	39
4	13	5	10	17	15	16	13	20	21	19	14	12	19	19	24	19	18	18	9	5	4	5	6	13	14	24
5	8	14	6	4	4	4	4	10	26	28	22	35	32	33	24	26	22	7	7	3	29	31	8	31	17	35
6	16	25	22	4	4	6	8	19	12	9	10	12	15	14	24	13	14	15	7	6	8	4	4	4	11	25
7	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
8	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
9	5	5	11	7	7	6	14	15	14	14	22	21	30	31	18	18	17	13	8	7	7	7	6	6	14	26
10	6	10	6	7	10	5	10	33	11	11	14	17	16	20	19	10	14	14	20	11	4	4	21	18	14	31
11	19	11	11	7	8	7	8	35	12	15	19	9	22	20	24	8	15	21	11	8	7	6	5	5	11	33
12	4	7	10	18	6	24	22	9	7	6	4	12	42	26	14	13	14	8	14	9	8	13	5	3	12	42
13	6	26	23	6	9	6	13	13	12	13	12	10	10	27	48	27	14	17	5	4	5	22	38	6	16	48
14	4	12	7	10	7	11	7	16	29	22	14	25	24	26	37	30	19	20	10	10	5	4	8	(CM)	16	37
15	8	12	13	6	6	6	8	17	30	20	22	15	18	16	18	21	18	15	12	4	5	2	5	29	14	30
16	18	25	11	12	5	6	18	10	6	8	15	10	10	12	21	14	7	7	7	4	5	4	3	4	10	25
17	21	25	13	3	3	6	5	8	4	13	14	9	9	4	3	4	10	14	5	5	10	13	32	6	10	32
18	8	9	8	9	8	6	10	10	33	37	28	42	37	6	5	7	5	10	7	3	19	7	13	13	14	42
19	7	14	8	6	13	4	7	10	14	37	12	10	8	9	11	12	15	9	8	6	5	7	(CM)	16	11	37
20	8	4	11	14	5	18	6	15	34	31	13	15	13	11	11	10	10	10	6	3	2	13	6	10	12	34
21	9	8	8	13	19	36	33	11	12	11	11	15	24	23	23	15	12	9	8	5	14	8	14	6	14	36
22	11	11	14	40	12	33	20	18	10	11	18	18	17	22	12	12	19	8	9	8	14	8	17	13	15	40
23	23	19	6	4	12	6	10	31	17	13	15	15	16	13	17	8	14	28	8	5	4	4	9	8	13	31
24	4	4	9	5	3	4	7	12	10	12	12	19	15	13	8	8	11	7	9	18	6	11	11	13	10	19
25	6	5	5	18	8	7	29	14	13	15	11	10	12	11	12	11	7	11	12	6	6	8	6	12	11	29
26	13	6	6	10	4	11	21	10	10	7	10	9	12	11	12	10	13	18	14	9	9	18	5	5	11	21
27	3	17	3	11	14	9	15	46	34	16	15	14	15	23	15	18	12	10	9	5	4	5	6	5	14	46
28	16	15	18	5	8	5	13	18	41	19	11	11	10	12	12	14	17	12	6	3	2	10	14	13	13	41
29	9	16	(CM)	10	7	4	4	12	15	35	18	26	18	12	29	22	37	16	4	2	2	2	3	4	13	37
30	4	12	17	5	5	38	35	11	21	12	14	16	12	11	14	14	10	8	8	3	2	5	35	13	14	38
31	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
AV	10	12	10	9	8	11	14	18	18	17	15	17	18	17	17	14	14	13	9	6	7	9	11	11	13	48
PK	23	26	23	40	19	38	35	46	41	37	30	42	42	33	48	30	37	28	20	18	29	31	38	31		

TEMPERATURE
DEGREE CCB-TRACT
TRAILER AR20
JULY 1981
OCCIDENTAL OIL SHALE INC.

DAY	HOUR (LOCAL STANDARD TIME)																								AVE PEAK	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	16	17	17	17	17	18	19	20	20	21	19	19	19	19	19	18	17	16	16	15	15	14	14	15	17	21
2	15	15	15	14	14	14	15	18	19	21	21	24	25	25	23	22	21	22	21	19	17	17	14	12	15	17
3	10	9	9	9	8	8	11	17	21	23	24	26	27	26	24	24	24	24	23	21	19	17	14	12	11	18
4	10	9	8	8	8	8	11	16	21	24	25	27	28	28	29	29	29	29	28	24	21	17	14	12	19	27
5	11	10	9	9	8	8	13	19	22	27	29	31	32	32	33	34	34	33	31	28	22	18	17	15	22	34
6	14	13	12	12	12	13	17	23	29	32	32	33	33	34	33	34	34	33	31	27	23	19	17	16	24	34
7	14	14	13	13	13	12	16	22	26	29	31	32	32	33	33	33	32	31	31	28	24	22	24	21	24	33
8	16	15	14	13	12	11	13	18	21	23	26	28	28	29	31	32	32	31	28	24	23	22	20	18	22	32
9	16	16	16	16	16	16	18	22	24	26	26	27	29	31	29	29	23	19	17	17	16	16	15	13	20	31
10	13	12	12	12	12	12	15	19	22	23	25	27	27	27	27	27	24	27	23	20	18	18	17	17	19	27
11	17	14	14	13	12	13	17	22	27	28	28	27	28	29	31	24	24	26	25	21	17	17	16	15	21	31
12	15	15	14	14	14	15	16	18	19	19	19	18	22	26	27	25	25	24	23	21	19	17	17	17	19	27
13	17	17	16	16	16	15	15	17	18	18	20	21	21	22	24	26	26	26	24	21	19	18	17	17	19	26
14	17	16	16	14	14	14	14	18	22	24	26	27	28	29	30	31	28	28	26	23	19	17	16	14	21	31
15	14	12	11	9	8	8	11	15	21	23	26	27	28	29	30	31	31	30	29	27	22	18	17	15	20	31
16	13	13	13	13	14	16	17	19	22	22	22	22	23	23	24	25	24	22	21	21	19	17	15	14	19	25
17	14	13	13	13	13	14	15	16	16	17	19	21	20	17	15	17	21	22	22	19	17	14	14	13	16	22
18	13	12	11	11	11	11	12	16	21	24	26	27	28	26	21	20	23	24	24	20	17	17	15	14	18	28
19	12	11	11	11	9	9	12	17	24	26	27	28	28	29	29	30	31	30	28	24	18	14	12	11	20	31
20	9	8	8	7	7	7	11	16	21	28	31	31	32	32	32	32	32	32	31	27	21	17	14	13	21	32
21	12	11	10	9	9	9	13	18	26	29	31	31	31	32	32	33	33	33	29	25	19	17	14	13	22	33
22	13	12	12	12	11	11	13	19	27	29	30	31	31	32	32	32	32	31	29	26	21	17	14	13	22	32
23	11	11	9	9	8	7	10	17	23	28	29	31	31	32	33	29	26	23	19	16	15	14	13	12	19	33
24	12	12	12	12	12	12	14	18	23	25	27	27	28	28	26	26	24	22	18	14	13	14	14	13	19	28
25	14	15	14	13	11	12	12	14	19	22	24	26	27	27	28	29	28	24	17	14	14	14	13	13	19	29
26	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	13	13	13	13	12	11	10	13	13
27	10	7	6	6	6	7	9	13	16	19	21	22	23	24	25	25	25	25	24	20	16	12	10	9	16	25
28	9	8	7	7	6	6	9	16	23	27	27	28	28	29	29	29	29	28	28	24	21	18	14	13	19	29
29	12	11	11	9	8	8	10	17	23	28	29	27	28	28	31	31	31	31	29	24	19	16	14	13	20	31
30	13	13	13	13	14	16	17	21	26	27	29	29	31	31	31	31	31	30	29	26	22	19	17	15	23	31
31	13	12	11	11	10	11	13	19	26	28	30	29	31	31	31	31	31	29	27	24	22	19	18	19	22	31
AV	13	12	12	11	11	11	14	18	22	25	26	27	28	28	28	28	28	26	25	22	19	17	15	14	20	34
PK	17	17	17	17	17	18	19	23	29	32	32	33	33	34	33	34	34	33	31	28	24	22	24	21	9	
MIN	9	7	6	6	6	6	9	13	16	17	19	18	19	17	15	17	17	13	13	13	13	12	10	9		

MONTHLY MINIMUM = 6

TEMPERATURE @ 10M
DEGREE C

CR-TRACT
TRAILER AA23
JULY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	11	12	11	11	11	11	13	16	19	14	18	18	18	18	17	16	14	14	13	13	13	13	13	13	14	19
2	13	13	13	13	13	13	13	17	18	20	21	23	24	23	22	21	19	19	19	17	16	14	13	12	17	24
3	12	11	11	10	9	10	12	16	19	22	24	25	26	26	21	22	22	23	22	19	17	16	14	13	18	26
4	12	12	12	11	9	11	13	17	20	22	24	24	26	26	28	28	28	28	26	23	21	18	17	16	20	29
5	15	14	14	14	15	16	17	21	24	28	29	31	31	32	31	31	31	29	29	27	23	20	19	18	23	32
6	18	18	17	16	17	17	20	24	28	29	30	31	32	32	33	33	32	32	29	25	23	21	20	19	25	33
7	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()	
8	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()	
9	17	17	17	16	16	17	19	21	22	24	25	26	27	28	29	28	22	17	14	13	13	14	13	19	29	
10	12	12	13	12	12	12	14	18	19	21	22	25	26	25	25	21	25	27	22	18	18	17	17	19	27	
11	17	16	16	16	16	16	18	22	26	26	28	26	28	27	28	25	24	25	25	18	14	15	15	14	21	28
12	14	14	15	14	15	14	16	18	18	18	17	16	23	26	26	24	24	23	25	19	15	14	14	14	18	26
13	14	14	15	14	14	14	14	15	16	17	18	18	18	19	24	24	23	24	22	19	18	17	16	16	18	24
14	16	16	16	14	14	14	16	19	21	23	24	24	27	27	28	29	28	28	26	23	18	20	19	18	21	29
15	16	17	14	13	13	12	14	17	21	23	26	28	28	29	29	30	28	28	27	25	22	21	19	18	22	30
16	17	17	17	17	16	17	18	20	21	20	20	21	22	22	23	23	22	21	19	18	17	16	15	14	19	23
17	14	14	14	14	14	14	16	16	13	17	19	19	19	13	13	16	21	23	21	18	14	13	13	13	16	23
18	13	12	13	13	12	12	13	17	21	23	24	27	26	22	20	23	23	23	24	21	18	16	12	12	18	27
19	12	12	11	11	11	13	16	19	23	23	27	27	27	22	28	29	30	30	29	25	22	20	18	17	21	30
20	16	16	14	13	14	14	17	20	23	28	29	30	31	32	31	31	31	30	29	26	22	20	19	18	23	32
21	18	18	17	16	16	17	18	23	27	28	29	30	32	32	33	32	32	31	29	26	22	21	21	18	24	33
22	19	17	17	16	17	17	19	23	25	27	28	31	31	31	31	31	31	29	29	26	23	21	19	19	24	31
23	17	16	14	14	14	13	16	20	24	26	27	29	30	29	31	28	23	20	16	13	13	13	13	13	20	31
24	13	12	12	12	12	12	14	18	22	23	24	26	27	26	24	26	23	20	17	12	12	12	12	12	18	27
25	13	13	13	12	11	12	12	13	18	22	23	23	25	26	27	27	26	22	14	13	13	13	12	12	17	27
26	12	13	13	14	13	13	14	17	20	21	21	23	24	25	23	17	12	11	11	11	11	10	9	9	15	25
27	9	9	8	8	6	7	9	12	16	18	20	22	22	23	24	24	24	24	23	20	17	16	14	14	16	24
28	13	13	12	13	12	13	15	19	23	26	26	26	27	28	27	28	27	27	26	23	21	19	18	17	21	28
29	17	16	16	14	14	14	16	19	24	28	27	26	25	28	28	29	30	28	26	23	21	20	19	19	22	30
30	19	18	17	19	21	19	19	22	23	24	26	27	27	28	28	28	28	28	27	24	22	22	21	21	23	28
31	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()	

AV	15	14	14	14	13	14	15	19	21	23	24	25	26	26	26	26	25	24	23	20	18	17	16	15	20	
PK	19	18	17	19	21	19	20	24	28	29	30	31	32	32	33	33	32	32	29	27	23	22	21	21		33
MN	9	9	8	8	6	7	9	12	13	14	17	16	18	13	13	16	12	11	11	11	11	10	9	9		

MONTHLY MINIMUM = 6

TEMPERATURE ■ 30M
 DEGREE C

 CB-TRACT
 TRAILER AA23
 JULY 1981
 OCCIDENTAL OIL SHALE INC.

DAY	HOUR (LOCAL STANDARD TIME)																								AVE	PEAK
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	12	13	12	11	13	12	13	16	18	14	17	18	18	17	17	16	13	13	13	13	13	13	13	13	14	18
2	13	13	13	13	13	13	13	16	17	19	19	22	23	23	21	21	18	18	18	17	16	14	13	13	17	23
3	12	11	11	11	10	11	12	16	18	21	23	23	24	24	21	21	22	22	22	19	17	16	15	14	17	24
4	12	12	12	12	11	11	13	16	19	21	23	23	24	25	27	27	27	27	25	24	22	21	19	17	20	27
5	17	16	16	16	16	16	18	20	24	27	28	28	29	30	30	31	31	31	29	28	27	23	21	21	23	31
6	20	19	19	19	18	18	19	24	28	29	29	30	31	31	32	32	32	32	31	29	25	23	22	20	25	32
7	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
8	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
9	17	18	18	17	17	17	19	21	22	23	24	24	26	27	28	29	29	29	28	26	23	22	19	17	()	29
10	13	13	13	13	12	12	14	18	19	21	22	24	24	24	24	21	24	24	26	22	18	18	18	19	19	26
11	18	17	17	17	17	17	18	22	24	26	27	25	27	26	27	24	23	24	24	24	18	14	15	15	21	26
12	14	16	16	16	16	15	16	18	18	18	17	16	21	23	24	24	24	24	22	24	15	14	14	14	18	24
13	15	15	15	14	14	14	14	15	16	17	18	18	18	19	22	23	22	23	23	21	19	17	17	16	18	24
14	16	16	17	16	15	15	16	18	20	23	23	24	26	26	27	28	28	27	25	23	18	21	21	18	21	28
15	17	17	16	14	13	13	14	17	20	23	25	27	27	27	28	28	28	27	27	25	23	21	21	19	21	28
16	18	18	18	18	17	17	18	19	20	19	19	21	21	21	23	23	22	21	19	18	15	17	16	15	19	23
17	15	14	14	14	14	15	16	16	13	16	19	18	18	14	14	16	20	22	20	18	15	14	15	13	16	22
18	13	13	14	14	13	13	14	17	19	22	23	24	25	22	19	23	23	23	23	22	19	16	12	13	18	25
19	13	13	12	12	12	13	16	19	22	22	26	27	27	28	28	29	29	28	28	26	22	21	18	18	21	29
20	17	17	16	14	15	16	17	19	22	27	28	29	29	30	30	30	30	30	29	27	24	22	21	21	23	30
21	19	18	18	18	18	18	19	23	26	28	28	29	30	31	32	31	31	31	29	27	23	22	22	19	25	32
22	21	18	18	18	18	19	20	23	25	26	28	29	29	31	31	30	29	28	28	27	23	22	20	19	24	31
23	18	17	17	17	16	13	16	20	24	26	27	28	29	29	30	28	23	21	16	13	14	13	13	13	20	30
24	13	13	13	13	13	13	14	18	21	23	24	25	26	26	24	25	22	20	17	12	12	12	12	12	18	26
25	13	14	13	13	12	12	12	13	17	21	22	23	24	26	27	27	22	22	14	13	13	13	13	13	17	27
26	13	13	14	14	13	13	14	17	19	20	22	23	24	24	23	17	12	11	11	11	11	11	10	10	15	24
27	10	9	9	9	7	8	9	12	14	17	19	21	22	23	24	24	23	23	23	22	18	17	16	14	16	24
28	14	14	13	14	13	13	16	19	23	25	26	27	27	28	27	28	27	27	26	23	23	22	19	18	21	28
29	18	18	17	17	16	16	17	19	24	27	27	26	25	27	28	28	28	28	26	24	22	22	21	21	23	28
30	20	19	18	20	21	20	20	22	23	24	26	26	27	28	28	28	28	28	27	26	24	23	22	22	24	28
31	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()

AV	15	15	15	15	14	14	16	18	21	22	23	24	25	25	26	25	25	24	23	20	19	18	17	16	20
PK	21	19	19	20	21	20	20	24	28	29	29	30	31	31	32	32	32	31	29	27	24	23	22	22	32
MIN	10	9	9	9	7	8	9	12	13	14	17	16	18	14	14	16	12	11	11	11	11	11	10	10	

MONTHLY MINIMUM = 7

TEMPERATURE @ 60M
DEGREE C

CR-TRACT
TRAILER AA23
JULY 1991
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK	
1	13	13	13	13	13	12	13	16	19	14	17	18	17	17	17	15	13	13	13	13	13	13	13	13	14	19	
2	13	13	13	13	13	13	13	16	17	19	21	23	23	23	21	20	18	18	19	19	17	15	14	13	17	23	
3	12	11	11	11	11	11	13	16	19	21	23	23	24	24	21	21	21	22	22	19	17	16	15	14	17	24	
4	13	12	12	12	11	12	14	17	20	22	23	24	26	27	27	27	27	27	26	24	22	21	19	18	20	27	
5	17	17	17	17	16	16	19	21	24	27	28	29	29	30	31	31	31	29	28	27	24	22	21	21	24	31	
6	21	20	19	19	19	19	21	24	28	29	29	31	30	31	32	31	31	31	29	24	22	22	21	21	25	32	
7	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()		
8	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()		
9	17	18	18	17	17	17	19	21	22	23	23	25	27	27	28	27	22	16	14	13	13	14	14	13	19	28	
10	13	13	13	13	13	13	15	18	19	21	22	24	24	24	24	21	24	26	22	18	18	16	16	15	21	28	
11	19	17	18	18	18	17	19	22	24	25	27	25	27	27	28	24	24	24	24	18	14	16	16	15	21	28	
12	15	16	16	16	17	16	17	18	18	18	16	16	21	23	23	24	24	22	24	19	15	14	14	14	18	24	
13	15	15	15	14	14	14	14	15	16	17	18	18	19	19	22	22	22	23	22	19	18	17	17	17	18	23	
14	17	17	17	15	15	15	16	18	21	24	26	27	27	27	28	28	28	27	25	23	18	22	21	19	22	28	
15	18	17	16	15	14	13	16	17	21	23	26	27	27	28	28	29	28	28	28	27	25	23	22	21	20	22	29
16	18	18	18	18	18	18	18	19	20	19	19	21	21	22	23	24	24	22	21	19	18	17	16	16	19	24	
17	15	14	14	14	14	14	16	15	13	17	19	18	18	14	14	17	21	22	20	18	15	14	16	14	16	22	
18	14	14	14	14	14	14	14	17	19	22	23	24	24	22	21	23	23	23	23	22	19	16	12	13	19	24	
19	13	13	12	12	12	12	16	19	22	22	25	27	27	27	28	28	29	28	28	27	25	23	22	18	17	21	29
20	18	18	17	16	16	17	18	21	23	27	28	29	29	29	29	31	31	30	29	27	26	23	22	22	24	29	
21	19	19	19	19	19	19	20	23	26	27	28	29	30	31	31	31	31	30	28	27	24	22	22	20	25	31	
22	21	19	21	19	18	19	21	23	25	26	28	29	29	30	30	30	29	28	28	26	23	22	20	19	24	30	
23	18	14	17	17	16	14	17	21	24	26	27	28	29	29	29	28	23	20	14	13	14	14	13	13	20	29	
24	14	14	14	14	13	13	14	15	18	23	24	25	26	26	24	24	22	20	16	12	12	12	13	13	18	26	
25	13	13	13	13	12	12	12	13	17	21	23	23	24	26	27	27	25	22	13	13	14	14	13	13	17	27	
26	13	13	14	14	13	13	14	17	19	21	22	23	24	25	22	16	11	11	11	11	11	11	11	11	15	25	
27	11	10	9	11	8	8	9	12	15	18	19	21	22	23	23	23	23	23	22	19	18	17	17	16	17	23	
28	16	14	14	14	14	14	16	19	23	25	26	26	27	27	27	27	26	27	26	24	23	23	20	19	22	27	
29	19	18	17	16	17	17	18	20	24	28	26	26	27	27	28	28	26	28	26	24	22	22	22	21	23	28	
30	21	20	19	21	21	20	21	22	23	24	25	26	27	27	27	28	28	27	27	26	25	24	22	22	24	28	
31	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()	

AV	16	16	15	15	15	15	16	18	21	22	24	24	25	26	26	25	25	24	22	20	19	18	17	17	20	
PK	21	20	21	21	21	20	21	24	28	29	29	31	30	31	32	31	31	31	29	27	26	24	22	22		32
MIN	11	10	9	11	8	8	9	12	13	14	16	16	17	14	14	15	11	11	11	11	11	11	11	11		

MONTHLY MINIMUM = 8

TEMPERATURE Q10M

C-B TRACT
MRI AD42
July, 1981

Refer to pages II-365 through II-377

Less than 50% data reported

Mechanical Recordering Instrument was removed and replaced by an R.A. solar powered data acquisition system installed July 25, 1981. Monitoring of data and maintenance of the instrumentation was contracted to WestAq Corp. upon purchase of the equipment.

TEMPERATURE 010M

C-B TRACT
MRI AD56
July, 1981

DATA NOT AVAILABLE AT REPORT TIME

DELTA TEMPERATURE 60-10M
DEGREE C*100

CR-TRACT
TRAILER AA23
JULY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	117	144	128	133	128	67	28	-11	-89	-67	-78	-61	-50	-94	-44	-67	-156	-133	-100	-56	-33	-17	-6	-22	-14	144
2	-44	-28	-33	-44	-33	-28	-17	-33	0	-6	-28	11	0	-33	-22	-61	-111	-67	-11	-39	-72	-17	17	0	-29	17
3	-17	28	-6	39	28	33	50	-50	-50	-67	-83	-94	-72	-72	-6	-44	-33	-28	-11	-72	-33	50	28	61	-18	61
4	50	56	33	67	111	111	106	-17	-17	-72	-67	50	-28	33	-22	-28	-33	-44	-22	-33	111	194	183	122	35	194
5	144	222	267	206	111	72	150	11	0	-67	-89	-122	-156	-128	56	-6	-28	-17	-17	6	133	178	144	256	55	267
6	250	156	250	294	217	239	117	-50	-22	-6	-17	-44	-89	-78	-72	-67	-50	-78	-11	-78	-67	39	89	183	46	294
7	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()	
8	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()	
9	61	83	72	89	89	33	-44	-56	-67	-78	-94	-44	-50	-106	-67	-61	-89	-117	-56	-39	11	39	39	0	-19	89
10	56	33	56	128	128	117	44	-61	-50	-44	-61	-106	-111	-72	-67	-50	6	-39	-11	-72	-44	-6	78	89	-3	128
11	122	128	150	156	183	167	56	-44	-83	-61	-89	-89	-61	6	-11	-94	-39	-50	-56	-28	6	6	6	17	12	183
12	39	111	100	122	111	100	44	-44	-39	-22	-39	-17	-61	-111	-128	-72	-67	-56	-56	-67	17	33	44	67	-22	67
13	44	11	-11	-17	-6	28	6	-11	-39	-44	-50	-56	-44	-50	-83	-106	-111	-133	-33	22	17	33	106	50	19	133
14	83	83	33	22	50	28	-6	-50	22	50	100	-22	-67	33	-72	-28	11	-44	-44	-39	17	133	183	183	40	183
15	144	56	106	139	122	106	111	0	-28	17	6	-61	-72	-56	-39	-39	-17	-22	-50	6	89	83	183	183	15	144
16	128	144	117	89	111	83	33	-33	-44	-44	-44	-44	-44	-44	-56	28	-39	-44	-44	-28	-17	50	67	39	27	156
17	56	44	22	33	72	39	44	-11	0	-33	-72	-22	-28	39	117	44	-28	-39	-11	0	33	94	156	106	27	156
18	144	178	100	117	200	139	128	-17	-67	-67	-94	-44	-28	-39	-44	-44	-89	-44	-44	-6	150	144	-6	-33	9	156
19	67	122	89	156	150	(MT)	39	-50	-67	-67	-94	-44	-28	-39	-44	-44	-89	-44	-44	-6	150	144	-6	-33	9	156
20	117	228	211	167	206	211	183	56	44	-67	-117	-167	-150	-156	-122	-100	-106	-72	-33	122	378	250	211	244	64	378
21	72	56	178	283	267	222	178	17	-72	-111	-117	-150	-94	-144	-122	-83	-100	-78	-17	83	189	67	144	133	33	283
22	178	233	311	222	128	172	83	-11	-72	-94	-83	-156	-100	-83	-50	-72	-83	-72	-44	-56	50	156	111	-44	26	311
23	44	172	283	211	167	106	100	44	-56	-67	-83	-94	-139	-122	-122	-94	-17	-44	-56	39	94	78	61	67	24	283
24	78	133	133	139	150	150	78	-44	-61	-72	-128	-156	-161	-122	-72	-83	-50	-83	-106	-72	-39	-17	39	83	-12	150
25	61	0	-11	-22	-39	56	17	-28	-83	-67	-39	-89	-144	-133	-122	-94	-72	-72	61	72	28	33	17	67	-25	72
26	72	83	50	0	28	17	44	-44	-56	-67	-78	-122	-111	-117	-106	-94	-200	-61	-50	-33	-11	28	56	72	-29	83
27	22	72	128	139	128	78	6	-44	-28	-33	-33	-61	-61	-67	-28	-50	-61	-89	-67	-78	44	144	156	167	16	167
28	194	100	139	100	167	144	133	-11	-33	-39	-17	-28	-33	-44	-61	-72	-72	-44	-56	106	233	244	150	111	55	244
29	167	128	117	133	161	200	189	44	-44	-39	-72	-50	-56	-50	-22	-22	-100	-44	6	89	133	172	183	172	58	200
30	211	222	189	139	33	56	106	-33	-67	-83	-89	-89	-128	-122	-122	-117	-117	-83	-56	78	244	233	61	56	22	244
31	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()	

MONTHLY MINIMUM = -200

AV	95	107	114	116	113	102	72	-21	-42	-51	-62	-73	-80	-70	-47	-56	-66	-60	-37	-5	59	80	79	83	13	
PK	250	233	311	294	267	239	189	56	44	50	100	50	0	39	117	44	11	-17	61	122	378	250	211	256		378
MIN	-44	-28	-33	-44	-39	-28	-44	-61	-89	-111	-128	-167	-161	-156	-128	-117	-200	-133	-106	-78	-72	-33	-22	-44		

RELATIVE HUMIDITY @ 3M
PERCENT

CR-TRACT
TRAILER AA23
JULY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	56	56	57	58	61	61	64	66	66	69	74	70	73	69	71	70	78	79	81	81	84	84	84	83	71	84
2	83	83	84	84	83	83	83	83	82	72	54	48	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	53	65	70	76	()	84
3	80	81	83	84	84	84	84	84	81	66	54	48	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	51	51	70	(RF)	()	84
4	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	48	45	44	43	55	57	58	58	58	58	56	52	47	42	43	()	58
5	43	43	43	43	43	43	43	43	45	47	47	47	47	49	57	57	58	58	58	56	52	47	43	43	()	58
6	43	43	43	43	43	43	43	43	44	46	47	47	47	49	51	51	51	51	51	51	44	42	42	42	46	51
7	42	42	42	42	42	42	42	44	47	49	52	56	58	59	57	59	60	60	59	59	49	49	45	44	50	60
8	43	43	43	42	42	43	43	43	45	45	49	50	52	52	52	55	57	62	62	57	53	50	46	45	49	62
9	45	45	43	43	43	43	43	44	50	52	58	60	62	64	64	64	66	67	68	47	62	59	56	55	54	68
10	52	52	58	48	47	52	40	83	83	83	80	79	79	80	80	79	80	81	82	81	73	60	60	56	70	83
11	65	65	66	66	66	67	68	63	55	50	48	46	48	47	47	46	50	51	50	51	80	83	83	82	60	83
12	83	84	82	80	80	79	80	75	72	70	68	75	76	62	51	51	50	51	55	60	76	81	83	84	71	84
13	83	81	80	81	81	80	80	80	74	71	70	67	65	66	63	55	54	55	53	57	63	67	71	74	70	83
14	75	75	75	75	79	80	80	80	70	66	53	48	46	46	45	45	44	44	44	45	47	53	56	56	59	80
15	54	61	64	67	67	67	63	65	55	48	45	44	44	44	43	43	43	43	43	43	44	45	46	49	51	67
16	51	52	54	57	60	62	63	64	64	59	58	59	57	54	53	52	48	49	52	56	58	60	62	66	57	66
17	(RF)	(RF)	(RF)	78	77	77	80	82	82	81	69	71	74	75	80	81	73	62	60	62	65	80	80	77	75	82
18	81	82	83	83	84	84	83	84	69	56	53	51	48	48	53	51	49	55	47	49	58	61	70	82	65	84
19	79	81	82	85	84	82	71	66	55	49	48	45	45	44	44	44	44	44	44	44	46	47	48	48	57	85
20	48	49	49	50	51	52	52	52	50	47	45	45	45	45	45	45	45	45	45	45	45	46	46	47	47	52
21	47	47	47	47	47	49	50	51	47	45	45	45	45	45	45	45	45	45	45	45	45	45	45	46	46	51
22	46	47	48	48	49	53	58	59	55	50	49	48	46	45	45	45	45	45	45	45	47	47	49	49	48	59
23	49	49	49	50	52	53	54	54	54	52	50	49	48	46	46	46	45	45	49	62	80	82	81	78	55	82
24	78	80	79	79	79	79	79	79	71	56	53	50	45	45	45	44	45	47	52	85	85	84	80	82	67	85
25	79	73	72	73	74	77	78	80	71	60	52	47	47	45	44	44	44	46	71	90	77	74	76	79	65	80
26	80	75	74	69	68	70	71	67	59	53	52	48	46	45	44	49	66	78	82	84	83	84	84	83	67	84
27	82	82	83	82	85	87	87	80	71	58	53	50	47	46	43	43	43	43	43	44	45	47	49	52	60	87
28	54	54	56	56	54	55	55	53	47	44	43	43	43	43	43	43	43	43	43	44	46	47	47	48	48	56
29	48	48	50	52	53	54	54	54	50	46	44	44	44	44	44	44	44	44	44	44	45	46	46	46	47	54
30	47	47	49	50	48	47	48	50	49	46	46	45	45	44	44	44	44	44	44	44	45	48	49	50	47	50
31	51	54	56	58	60	60	60	59	55	48	46	45	45	45	45	45	45	45	45	47	48	51	53	55	51	60

AV	61	61	62	62	63	64	65	64	61	56	53	52	52	52	52	52	52	53	54	56	58	59	60	61	57	87
PK	83	84	84	85	85	87	87	84	83	83	80	79	79	80	80	81	80	81	82	85	85	84	84	84	84	
MIN	42	42	42	42	42	42	42	43	44	44	43	43	43	43	43	43	43	43	43	43	44	42	42	42	42	

MONTHLY MINIMUM = 42

SOLAR RADIATION
LANGLEYCR-TRACT
TRAILER AR23
JULY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TL	PEAK
1	0	0	0	0	0	5	20	35	50	26	13	27	26	25	17	14	7	5	3	1	0	0	0	0	273	50
2	0	0	0	0	0	2	10	41	28	60	55	77	64	30	55	44	32	16	11	1	0	0	0	0	526	77
3	0	0	0	0	0	5	17	37	49	62	73	64	63	37	14	16	17	20	7	0	0	0	0	0	481	73
4	0	0	0	0	0	6	19	34	48	62	71	79	79	76	70	57	42	27	11	1	0	0	0	0	681	79
5	0	0	0	0	0	6	20	35	50	64	74	79	80	76	68	57	29	18	10	1	0	0	0	0	667	80
6	0	0	0	0	0	5	19	34	49	63	73	79	62	62	70	50	41	21	6	1	0	0	0	0	635	79
7	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	0	
8	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	343	79
9	0	0	0	0	0	4	17	20	28	29	35	41	71	31	65	52	40	27	8	1	0	0	0	0	392	71
10	0	0	0	0	0	5	18	38	35	62	67	78	62	37	25	48	42	20	2	0	0	0	0	0	539	78
11	0	0	0	0	0	4	17	33	47	43	68	43	57	47	39	22	21	14	8	0	0	0	0	0	463	68
12	0	0	0	0	0	4	19	14	4	8	9	26	65	65	50	36	19	6	8	3	0	0	0	0	335	65
13	0	0	0	0	0	1	2	8	11	16	32	32	19	22	52	34	32	25	2	0	0	0	0	0	287	52
14	0	0	0	0	0	1	10	26	36	53	49	31	80	50	56	59	37	17	4	1	0	0	0	0	512	80
15	0	0	0	0	0	4	17	26	45	58	76	80	70	75	56	58	42	23	10	1	0	0	0	0	640	80
16	0	0	0	0	0	1	10	17	17	13	16	23	20	20	37	24	6	8	3	0	0	0	0	0	215	37
17	0	0	0	0	0	1	4	2	7	26	24	20	35	3	7	28	40	26	11	1	0	0	0	0	234	40
18	0	0	0	0	0	3	14	29	41	60	61	75	44	10	54	29	6	23	6	0	0	0	0	0	454	75
19	0	0	0	0	0	4	16	32	47	60	71	78	81	77	68	56	41	24	10	0	0	0	0	0	666	81
20	0	0	0	0	0	4	17	32	47	61	71	73	78	77	68	55	41	25	9	0	0	0	0	0	658	78
21	0	0	0	0	0	4	17	34	48	62	73	78	79	74	68	55	40	25	7	0	0	0	0	0	664	79
22	0	0	0	0	0	3	14	32	47	61	71	75	51	78	64	50	33	12	11	0	0	0	0	0	603	78
23	0	0	0	0	0	4	15	32	46	57	70	75	80	59	59	22	1	0	0	0	0	0	0	0	520	80
24	0	0	0	0	0	3	16	31	45	59	70	76	82	50	13	46	33	8	0	0	0	0	0	0	532	82
25	0	0	0	0	0	2	6	26	45	59	70	67	77	74	68	47	29	5	1	0	0	0	0	0	575	77
26	0	0	0	0	0	2	14	31	46	60	70	79	79	67	23	9	2	2	2	0	0	0	0	0	485	79
27	0	0	0	0	0	4	13	28	45	59	70	76	77	73	67	55	40	24	8	0	0	0	0	0	640	77
28	0	0	0	0	0	3	16	31	46	61	71	76	76	60	42	43	23	23	8	0	0	0	0	0	579	76
29	0	0	0	0	0	1	14	31	45	54	20	21	24	61	52	41	34	17	4	0	0	0	0	0	419	61
30	0	0	0	0	0	2	11	21	38	37	50	53	64	70	67	53	40	16	5	1	0	1	1	1	528	70
31	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	0	
TL	0	0	0	0	0	92	402	790	1088	1396	1571	1681	1822	1564	1457	1199	819	479	175	10	0	1	1	1	1	4546.0
PK	0	0	0	0	0	6	20	41	50	64	76	80	82	78	70	59	42	27	11	3	0	1	1	1	1	82

BAROMETRIC PRESSURE
MILLIBARSCB-TRACT
TRAILER AR23
JULY 1981
OCCIDENTAL OIL SHALE INC.

DAY	HOUR (LOCAL STANDARD TIME)																								24	AVE	PEAK	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23					
1	788	788	788	789	790	791	792	793	793	788	793	792	790	788	788	788	788	788	788	788	788	788	788	788	788	789	793	
2	788	788	788	789	789	789	790	790	789	789	789	789	790	789	788	789	789	789	789	789	789	790	790	790	790	789	790	
3	790	790	790	790	790	790	790	790	791	791	791	791	791	791	790	790	790	790	790	790	790	790	790	791	791	790	791	
4	790	790	790	790	790	791	791	792	792	791	792	792	792	792	791	791	791	790	790	790	790	790	790	790	790	791	792	
5	789	789	789	789	789	790	789	790	790	790	790	790	789	789	788	788	788	787	787	787	787	787	786	786	788	790	792	
6	786	786	786	786	786	786	786	786	786	786	786	786	786	786	785	785	785	785	784	784	784	785	785	784	785	786	786	
7	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()	()	
8	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()	()	
9	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()	()
10	789	789	789	789	789	789	789	789	789	789	789	789	789	788	788	788	787	787	787	786	786	787	787	788	788	789	789	
11	787	787	787	787	787	787	788	788	788	788	788	788	788	787	787	787	787	786	786	786	786	786	787	787	788	788	789	
12	788	787	788	788	788	788	788	788	788	789	789	789	789	788	788	787	787	787	786	786	786	786	787	787	788	788	789	
13	787	787	787	787	788	788	788	788	788	788	789	789	789	789	788	788	788	788	788	788	788	788	788	788	788	788	789	
14	788	788	788	789	789	789	789	789	789	789	790	790	789	789	788	788	788	788	787	788	788	788	788	788	788	788	790	
15	788	788	788	788	788	789	789	788	789	789	789	789	788	788	787	787	787	786	786	786	786	786	786	786	786	788	789	
16	786	786	786	786	786	786	786	787	790	789	791	791	791	790	790	789	789	789	789	789	790	790	790	789	789	789	791	
17	789	789	789	789	789	789	789	789	789	788	786	786	786	786	786	785	785	785	785	785	785	785	785	786	786	788	789	
18	786	786	786	786	786	786	787	787	787	788	788	787	787	787	787	786	786	785	785	785	785	785	786	786	787	789	791	
19	788	787	788	788	788	788	788	788	788	788	789	792	793	793	792	792	792	791	791	791	792	792	792	793	790	793	793	
20	792	793	793	792	793	793	793	793	789	788	789	789	789	788	788	788	788	787	787	787	787	787	788	787	789	790	793	
21	787	787	787	787	787	787	787	788	788	788	788	788	787	787	786	786	786	785	785	785	785	785	786	786	787	788	788	
22	786	786	786	786	786	786	786	786	787	787	787	786	786	786	785	785	785	785	785	785	785	786	786	787	786	787	787	
23	787	787	787	787	787	787	787	788	788	788	787	787	787	787	786	785	785	786	787	789	788	788	788	788	788	787	789	
24	788	787	787	787	787	787	787	787	787	788	788	787	787	786	786	786	786	786	788	788	788	788	788	788	787	790	790	
25	788	787	787	787	787	787	787	788	787	787	787	786	786	785	785	785	784	785	787	786	786	786	786	786	786	788	788	
26	786	786	786	786	786	786	786	786	786	788	788	786	786	785	785	785	786	788	788	788	788	788	788	788	787	788	788	
27	788	788	788	788	788	788	788	789	789	789	789	789	789	789	789	789	789	788	788	788	788	788	788	788	788	788	790	
28	789	788	788	788	788	788	788	789	789	789	789	789	788	788	787	787	787	786	786	786	786	786	786	787	788	788	789	
29	786	786	786	786	786	786	787	787	787	787	787	790	791	791	790	790	789	789	789	789	789	789	789	789	789	788	789	
30	789	789	789	789	789	789	789	788	786	787	787	787	788	788	788	788	788	788	788	788	788	788	788	789	788	789	791	
31	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()	()	

AV	788	788	788	788	788	788	788	789	788	788	789	789	789	788	788	788	788	787	787	788	788	788	788	788	788	789	793						
PK	792	793	793	792	793	793	793	793	793	791	793	792	793	793	792	792	792	791	791	792	792	792	792	792	792	793	793						
MN	786	786	786	786	786	786	786	786	786	786	786	786	786	785	785	785	784	784	784	784	784	785	785	785	785	785	785						

MONTHLY MINIMUM = 784

PRECIPITATION
CM#100

CR-TRACT
TRAILER AR20
JULY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TL PEAK
1																			3	3					5
2																									()
3																									()
4																									()
5																									()
6																									()
7																									()
8																		8	30	18	5	3			()
9																41									63
10																			13	18	5	3			41
11																			13	41					53
12																			5	3	25	5			38
13																									25
14																									()
15																									()
16																									()
17																									()
18																									()
19																									()
20																									()
21																									()
22																									()
23																									()
24																									()
25																									()
26																									()
27																									()
28																									()
29	(TR)	(TR)	3																					3	3
30	3																								3
31	(TR)																								()
TL	3	()	3	()	()	()	()	()	()	3	()	()	()	3	3	48	3	18	56	63	81	56	33	3	373
PK	3		3							3				3	3	41	3	10	30	18	41	25	13	3	41

PRECIPITATION
CM*100

CR-TRACT
TRAILER AR23
JULY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TL	PEAK
1																				5					10	5
2																									(
3																									(
4																									(
5																									(
6																									(
7																									(
8																									(
9																		5	33	8	3				5	
10																		5							48	33
11																				25	13			(
12											5														38	25
13																				13	13	10	3		5	5
14																									38	13
15																									(
16																									(
17																									(
18																									(
19																					25	23	8		63	25
20														13	3										8	8
21																									(
22																									(
23																									(
24																			15						15	15
25																				30	13	3		5	51	30
26																				13					20	13
27																	13	5							18	13
28																									(
29																									(
30																									(
31																									(

TL	8	(	(	(	(	(	(	(	(	(	5	(	(	13	3	(	13	10	58	94	66	36	10	5	320	33
PK	8										5			13	3		13	5	33	30	25	23	8	5		

EVAPORATION

C-B TRACT
TRAILER AB23
July, 1981

NOT OPERATIONAL

INVERSION HEIGHT
METERS

CB-TRACT
TRAILER AC20
JULY 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	300	290	310	320	320	300	195	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	85	190	120	165	200	205	210	215	228	320
2	220	270	305	280	230	200	90	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	45	250	320	285	()	320
3	340	410	415	405	420	415	400	255	40	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	60	255	410	480	490	405	347	490
4	380	400	525	560	515	515	485	405	320	255	50	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	140	265	380	370	375	371	560
5	480	505	480	440	440	430	390	330	170	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	60	260	305	390	410	360	363	505
6	500	540	545	520	525	445	410	370	220	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	150	255	325	320	394	545
7	355	410	505	525	525	565	530	330	90	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	90	240	240	140	215	295	337	565
8	370	345	345	380	380	330	180	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	205	330	()	380
9	305	400	465	410	325	305	215	40	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	60	240	260	265	310	315	300	280	281	465
10	690	770	785	740	745	750	585	240	40	(NV)	(NV)	(NV)	(NV)	(NV)	140	380	360	160	160	180	240	270	325	365	417	785
11	505	525	605	707	700	665	505	110	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	200	310	420	560	545	405	483	707
12	370	485	485	390	460	410	150	125	160	215	180	290	170	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	40	185	255	265	255	272	485
13	400	435	350	460	385	310	265	305	180	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	115	265	400	530	610	540	370	610
14	385	380	375	400	510	570	595	525	270	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	120	225	330	400	390	391	595
15	480	470	515	500	435	370	265	115	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	40	240	380	355	330	390	349	515
16	325	360	305	310	335	335	225	40	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	80	215	295	290	245	258	360
17	300	290	290	315	320	320	325	410	425	435	200	(NV)	175	335	300	365	320	210	215	320	380	525	490	415	334	525
18	335	335	335	340	340	340	325	250	40	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	50	200	285	300	380	435	370	291	435
19	400	425	435	470	490	370	200	60	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	40	155	320	375	390	375	322	490
20	335	340	360	360	355	330	335	355	170	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	310	365	320	310	340	328	365
21	405	420	440	500	520	520	490	425	325	120	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	70	255	275	280	340	310	356	520
22	335	355	370	380	375	370	310	145	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	70	160	250	315	340	335	294	380
23	315	360	365	360	350	335	290	110	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	280	440	410	315	315	290	324	440
24	485	435	345	345	325	290	205	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	340	525	525	475	565	405	565
25	515	635	640	440	330	380	305	60	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	90	320	340	410	595	490	555	407	640
26	380	435	415	300	290	360	390	235	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	90	225	320	360	340	270	315	435
27	600	590	540	540	525	490	445	390	210	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	220	300	295	290	370	415	600
28	300	310	350	450	540	505	370	150	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	225	365	375	360	360	358	540
29	440	445	470	500	510	505	445	290	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	165	305	410	440	450	413	510
30	440	515	525	515	490	435	310	90	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	270	415	400	315	360	391	525
31	420	385	365	360	500	540	430	150	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	225	340	310	290	280	230	345	540

AV	400	428	437	436	436	420	344	234	()	()	()	()	()	()	()	()	()	()	145	236	308	359	362	356	350	
PK	690	770	785	740	745	750	595	525	425	435	200	290	175	335	300	380	360	240	320	440	525	595	610	565	785	

STABILITY CLASS @ 50M
0=STR 1=UNST

CB-TRACT
TRAILER AC20
JULY 1991
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	PREV
1	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1
3	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
5	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
6	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
7	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
8	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1
9	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0
13	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
14	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
15	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
16	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1
18	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
19	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1
20	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
22	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
23	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
24	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1
25	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
26	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
27	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
28	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1
29	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1
30	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1
31	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
PV	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0

STABILITY CLASS @ 200M
0=STR 1=UNST

CB-TRACT
TRAILER AC20
JULY 1981
OCCIDENTAL OIL SHALE INC.

DAY	HOUR (LOCAL STANDARD TIME)																								PREV
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1
2	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
3	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
4	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
5	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
6	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
7	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
8	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0
9	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
10	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
11	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
12	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
13	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
14	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
15	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
16	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
17	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
18	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
19	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
20	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
21	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
22	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
23	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
24	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
25	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
26	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
27	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
28	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
29	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
30	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
31	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
PV	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0

STABILITY CLASS USING DT/02
NT 60-10W
WS 10W

CH-TRACT
TRAILER AA23
JULY 1981
OCCIDENTAL OIL SHALE, INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE
1	F	E	E	F	F	()	E	E	B	D	C	D	D	B	D	D	A	A	D	D	D	E	E	E	D
2	D	E	D	D	D	()	E	E	E	E	D	E	E	D	D	D	D	D	E	D	D	E	E	E	D
3	()	E	E	E	F	F	E	D	E	D	C	R	D	D	E	D	D	D	E	D	F	E	E	E	D
4	F	F	F	F	F	F	F	E	E	D	D	()	D	E	E	D	D	D	E	D	F	F	F	F	E
5	F	F	F	F	F	F	F	E	E	D	R	()	A	A	E	E	E	E	E	E	F	F	F	F	E
6	F	F	F	F	F	F	F	D	E	E	D	D	R	C	D	D	C	C	F	C	D	E	F	F	E
7	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	
8	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	
9	E	F	E	F	F	E	D	D	D	C	B	D	D	A	E	D	D	B	D	D	D	E	E	E	D
10	E	F	E	F	F	F	E	D	D	D	D	R	R	E	D	D	D	D	F	D	E	E	E	E	D
11	E	F	E	F	F	F	E	D	D	D	D	R	R	E	E	A	D	D	D	D	E	E	E	E	D
12	E	F	E	F	F	()	E	E	D	D	D	R	R	E	E	D	D	D	D	E	F	F	F	F	D
13	E	F	E	F	F	E	E	E	D	D	D	D	D	E	D	D	D	D	D	D	E	E	E	E	D
14	F	F	F	F	F	F	E	E	D	D	D	D	D	E	D	D	D	D	D	E	E	E	E	E	D
15	F	F	F	F	F	F	()	E	D	D	F	D	D	D	D	D	D	D	D	E	F	F	F	()	E
16	F	F	F	F	F	F	E	E	D	D	E	D	D	D	D	E	D	D	D	E	E	F	F	F	E
17	F	F	F	F	F	F	E	E	E	D	D	D	D	E	D	E	D	D	E	E	F	F	F	F	E
18	F	F	F	F	F	F	E	E	E	D	D	D	D	D	D	E	D	D	E	E	F	F	F	D	E
19	F	F	F	F	F	()	E	D	D	D	R	A	D	D	D	D	D	D	D	E	F	F	F	F	E
20	F	F	F	F	F	()	F	E	D	D	R	C	C	D	D	C	C	C	D	E	F	F	F	F	D
21	F	F	F	F	F	F	F	E	D	D	C	R	R	B	B	D	D	D	D	F	F	F	F	F	D
22	F	F	F	F	F	F	F	E	D	D	C	R	R	B	B	D	D	D	D	F	F	F	F	F	D
23	F	F	F	F	F	F	F	E	D	D	C	R	R	B	B	D	D	D	D	F	F	F	F	F	D
24	F	F	F	F	F	F	F	E	D	D	C	R	R	B	B	D	D	D	D	F	F	F	F	F	D
25	D	D	F	F	D	E	E	D	D	D	D	D	C	C	D	C	C	C	H	E	E	E	E	E	D
26	E	E	F	F	F	F	E	D	D	D	D	D	C	C	D	C	D	D	D	E	E	E	E	E	D
27	E	E	F	F	F	F	E	D	D	D	D	D	C	C	D	C	D	D	D	E	E	E	E	E	D
28	F	F	F	F	F	F	F	E	D	D	D	D	D	D	D	D	D	D	D	C	F	F	F	F	E
29	F	F	F	F	F	F	F	E	D	C	R	R	C	D	C	R	C	C	D	F	F	F	F	F	E
30	F	F	F	F	F	F	F	E	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	D
31	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	
AVE	E	F	F	F	F	F	E	D	D	D	C	C	C	C	D	D	D	D	D	D	E	E	E	E	E

TOTAL OCCURRENCES: A = 10 R = 44 C = 34 D = 225 E = 203 F = 154 HOURS MISSING = 74

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

C-B SHALE OIL PROJECT

NITRIC OXIDE (NO)

PERIOD(7/01/81 TO 7/31/81)

TRAILER AB20

CONCENTRATION MAX UG/M**3	WIND DIRECTION												W				NNW				CALM	TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW						
	0	0	0	0	3	2	1	1	0	1	1	2	2	4	0	0	1					
GT 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
20. - 30. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
10. - 20. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
LT 10. :	18	11	14	16	59	181	107	6	22	21	29	26	28	66	29	16	22	671				
TOTAL :	18	11	14	16	59	181	107	6	22	21	29	26	28	66	29	16	22	671				
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

C-B SHALE OIL PROJECT

NITRIC OXIDE (NO)

PERIOD(7/01/81 TO 7/31/81)

TRAILER AR23

CONCENTRATION MAX UG/M**3	WIND DIRECTION																TOTAL			
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL		
GT 130. :	3	3	2	3	4	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20. - 30. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10. - 20. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LT 10. :	18	16	11	9	18	43	53	53	47	34	51	23	16	13	30	35	8	478		
TOTAL :	18	16	11	9	18	43	53	53	47	34	51	23	16	13	30	35	8	478		
MEAN CONC.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	1		

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

CONCENTRATION MAX UG/M**3	OXIDES OF NITROGEN (NOX)				PERIOD (7/01/81 TO 7/31/81)				C-B SHALE OIL PROJECT			
	TRAILER				WIND DIRECTION				W			
	N	NNE	NE	E	ESE	SE	SSE	S	SSW	SW	WSW	W
40. -	0	0	0	0	5	0	0	0	0	0	0	0
30. -	0	0	0	0	0	0	0	0	0	0	0	0
20. -	0	0	0	0	0	0	0	0	0	0	0	0
10. -	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	18	11	14	16	59	181	107	6	22	21	29	26
MEAN CONC.	0	0	0	0	0	0	0	0	0	0	0	0

CONCENTRATION MAX UG/M**3	OXIDES OF NITROGEN (NOX)				PERIOD (7/01/81 TO 7/31/81)				C-B SHALE OIL PROJECT			
	TRAILER				WIND DIRECTION				W			
	N	NNE	NE	E	ESE	SE	SSE	S	SSW	SW	WSW	W
40. -	0	0	0	0	5	0	0	0	0	0	0	0
30. -	0	0	0	0	0	0	0	0	0	0	0	0
20. -	0	0	0	0	0	0	0	0	0	0	0	0
10. -	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	18	11	14	16	59	181	107	6	22	21	29	26
MEAN CONC.	0	0	0	0	0	0	0	0	0	0	0	0

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

OXIDES OF NITROGEN (NOx)

C-B SHALE OIL PROJECT

PERIOD(7/01/81 TO 7/31/81)

TRAILER AB23

CONCENTRATION MAX U ₁₅ /4**3	WIND DIRECTION										W				NW			NNW		CALM		TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NW	NW	NNW	NNW	CALM	CALM	TOTAL
GT 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20. - 30. :	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
10. - 20. :	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	2	0	0	0	4
LT 10. :	18	16	11	8	18	43	53	53	47	34	50	23	16	13	29	33	33	8	8	8	8	473
TOTAL :	18	16	11	9	18	43	53	53	47	34	51	23	16	13	30	35	35	8	8	8	8	478
MEAN CONC.	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	2	2	3	3	3	3	0

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

NITROGEN DIOXIDE (NO2)

C-B SHALE OIL PROJECT

TRAILER AB20 PERIOD(7/01/81 TO 7/31/81)

CONCENTRATION MAX UG/M**3	WIND DIRECTION																TOTAL			
	N	NNE	NE	ENE	E	ESE	SE	SSE	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL				
GT 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20. - 30. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10. - 20. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LT 10. :	18	11	14	16	59	181	107	6	22	21	29	26	29	66	29	16	22	22	672	
TOTAL :	18	11	14	16	59	181	107	6	22	21	29	26	29	66	29	16	22	22	672	
MEAN CONC.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

NITROGEN DIOXIDE (NO2)

C-B SHALE OIL PROJECT

PERIOD(7/01/81 TO 7/31/81)

TRAILER AB23

CONCENTRATION MAX UG/M**3	WIND DIRECTION										W				NW				TOTAL	
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL		
GT 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	:	0
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	:	0
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	:	0
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	:	0
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	:	0
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	:	0
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	:	0
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	:	0
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	:	0
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	:	0
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	:	0
20. - 30. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	:	0
10. - 20. :	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	:	2
LT 10. :	18	16	11	8	18	43	53	53	48	34	51	23	16	13	30	34	8	477	:	
TOTAL :	18	16	11	9	18	43	53	53	48	34	51	23	16	13	30	35	8	479	:	
MEAN CONC.	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	2	0	:	

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

C-B SHALE OIL PROJECT

OZONE (03)

PERIOD(7/01/81 TO 7/31/81)

TRAILER AB20

CONCENTRATION MAX UG/M**3	N	WNE	NE	ENE	E	ESE	SE	SSE	WIND DIRECTION				SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
									S	SSW	S	SSW								
143	107	127	139	133	143	137	129	127	154	156	160	156	160	156	148	152	148	148	148	148

GT 260. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
240. - 260. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
220. - 240. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200. - 220. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180. - 200. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160. - 180. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
140. - 160. :	1	0	0	0	1	0	0	0	2	4	2	1	3	1	7	2	1	1	1	20
120. - 140. :	1	0	1	1	2	5	3	1	4	7	5	8	12	3	0	0	0	0	0	55
100. - 120. :	9	2	1	1	6	17	3	2	11	19	11	16	27	11	6	0	0	0	0	153
80. - 100. :	6	7	7	5	21	47	17	4	4	2	4	5	23	7	7	2	2	2	2	177
60. - 80. :	3	2	3	5	18	58	35	1	0	0	1	1	3	6	1	4	4	4	4	141
40. - 60. :	0	3	3	4	12	41	44	0	0	0	0	0	0	0	0	0	0	0	0	115
20. - 40. :	0	0	1	1	6	24	18	0	0	0	0	0	0	1	2	9	9	9	9	62
LT 20. :	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2
TOTAL :	20	14	16	17	65	194	121	8	22	21	29	26	31	72	30	17	24	24	24	727
MEAN CONC.	101	81	76	75	75	71	62	99	103	112	115	118	110	108	99	92	51	51	51	83

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

OZONE (03)

C-B SHALE OIL PROJECT

TRAILER AR23 PERIOD(7/01/81 TO 7/31/81)

CONCENTRATION MAX UG/M**3	WIND DIRECTION																NNW	CALM	TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NW			
GT 260. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
240. - 260. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
220. - 240. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200. - 220. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180. - 200. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160. - 180. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140. - 160. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120. - 140. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100. - 120. :	5	5	3	1	1	1	1	1	1	2	1	11	5	4	1	4	8	1	55
80. - 100. :	6	8	5	5	6	15	23	21	17	20	36	12	11	10	20	20	3	238	
60. - 80. :	5	6	3	5	12	21	25	28	25	34	38	11	7	9	14	10	2	255	
40. - 60. :	2	0	2	0	2	19	20	24	9	10	14	6	6	1	3	1	7	126	
20. - 40. :	0	0	0	0	0	0	1	0	2	0	0	2	0	1	0	0	0	6	
LT 20. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL :	18	19	13	11	21	56	70	74	55	65	99	36	28	22	41	39	13	680	
MEAN CONC.	81	85	84	82	75	69	71	70	73	74	78	74	79	78	81	85	65	75	

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

C-B SHALE OIL PROJECT

CARBON MONOXIDE (CO)

PERIOD(7/01/81 TO 7/31/81)

TRAILER

AB20

WIND DIRECTION

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
CONCENTRATION	0	0	7	0	7	7	0	0	0	0	0	0	0	0	7	0	7	
MAX																		
UG/M**3																		

GT 4000.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3750.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3500.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3250.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3000.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2750.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2500.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2250.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2000.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1750.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1500.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1250.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1000.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

LT 1000. : 20 14 16 16 17 65 194 121 8 22 21 29 26 31 72 30 17 24 : 727

TOTAL : 20 14 16 16 17 65 194 121 8 22 21 29 26 31 72 30 17 24 727

MEAN
CONC.

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

C-B SHALE OIL PROJECT

CARBON MONOXIDE (CO)

PERIOD(7/01/81 TO 7/31/81)

TRAILER AB23

CONCENTRATION MAX UG/M**3	WIND DIRECTION										TOTAL							
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
287 1701	586	505	701	747	1713	1839	908	896	1724	804	862	333	885	1667	1690			

GT 4000.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3750.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3500.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3250.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3000.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2750.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2500.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2250.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2000.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1750.	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	4
1500.	0	1	0	0	0	0	1	0	0	0	1	0	0	0	0	1	1	5
1250.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1000.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LT 1000.	14	14	12	11	20	54	62	68	54	59	93	34	27	21	39	37	9	628
TOTAL	14	15	12	11	20	54	63	72	54	59	94	34	27	21	39	38	10	637
MEAN CONC.	49	225	191	162	208	172	198	224	130	118	168	101	133	59	105	112	241	156

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

SULFUR DIOXIDE (SO2)

C-B SHALE OIL PROJECT

TRAILER AB23 PERIOD(7/01/81 TO 7/31/81)

CONCENTRATION MAX U ₅ /4**3	WIND DIRECTION																		TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM		
GT 130. :	5	5	5	5	5	5	5	5	5	5	7	5	5	7	10	7	7		
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20. - 30. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10. - 20. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
LT 10. :	16	18	10	10	17	38	52	49	37	35	57	24	15	14	31	36	9	468	
TOTAL :	16	18	10	10	17	38	52	49	37	35	57	24	15	14	32	36	9	469	
MEAN CONC.	0	1	1	1	1	1	0	1	1	1	1	1	1	3	2	1	2	1	

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

C-B SHALE OIL PROJECT

HYDROGEN SULFIDE (H₂S)

PERIOD(7/01/81 TO 7/31/81)

TRAILER AB23

CONCENTRATION MAX UG/M ³ #3	WIND DIRECTION										W					NNW					CALM					TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	W	WNW	NW	NNW	W	WNW	NW	NNW	W	TOTAL
GT 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20. - 30. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10. - 20. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LT 10. :	14	14	8	7	15	43	58	60	42	59	84	29	23	20	35	26	26	12	12	549						
TOTAL :	14	14	8	7	15	43	58	60	42	59	84	29	23	20	35	26	26	12	12	549						
MEAN CONC.	1	1	1	1	1	2	2	1	1	2	1	1	1	1	1	1	1	1	1	1						

0 = NO OBSERVATIONS

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

10 METER LEVEL

C-B SHALE OIL PROJECT

STATION AB20 PERIOD(7/01/81 TO 7/31/81)

WIND DIRECTION

WIND SPEED MAX METERS/SEC	WIND DIRECTION											NNW	NW	WNW	W	WSW	SW	SSW	S	SSE	SE	ESE	E	ENE	NE	NNE	N	VAR	TOTAL	
GT 11. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8. - 11. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5. - 8. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3. - 5. :	2	0	0	0	9	25	24	0	3	3	14	12	8	33	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1. - 3. :	9	8	3	6	28	135	80	7	15	15	13	9	17	28	19	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LT 1. :	9	6	13	11	27	32	17	1	4	3	2	5	5	3	5	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL :	20	14	16	17	65	194	121	8	22	21	29	26	31	72	30	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PERCENT	3.	2.	2.	2.	9.	28.	17.	1.	3.	3.	4.	4.	4.	10.	4.	2.	0.	100.												

0 = NO OBSERVATIONS

01/20/82-3413

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

10 METER LEVEL															C-B SHALE OIL PROJECT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
STATION AA23 PERIOD(7/01/81 TO 7/31/81)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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GT	11.	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

30 METER LEVEL

C-B SHALE OIL PROJECT

STATION AA23 PERIOD(7/01/81 TO 7/31/81)

WIND DIRECTION

WIND SPEED MAX METERS/SEC	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	TOTAL
GT 11. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
8. - 11. :	0	0	0	0	0	0	2	1	0	4	7	2	0	3	2	0	0 :	21
5. - 8. :	1	0	1	0	1	5	10	12	6	19	23	5	3	7	13	5	0 :	111
3. - 5. :	5	4	3	2	7	29	28	19	14	25	19	4	5	7	15	14	0 :	200
1. - 3. :	7	9	7	6	16	39	40	14	19	10	10	16	9	4	14	11	0 :	231
LT 1. :	5	1	4	4	5	11	5	14	15	11	5	5	9	11	4	4	0 :	113
TOTAL :	18	14	15	12	29	84	85	60	54	69	64	32	26	32	48	34	0	676
PERCENT	3.	2.	2.	2.	4.	12.	13.	9.	8.	10.	9.	5.	4.	5.	7.	5.	0.	100.

0 = NO OBSERVATIONS

11-350

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

60 METER LEVEL

C-B SHALE OIL PROJECT

STATION AA23 PERIOD(7/01/81 TO 7/31/81)

WIND DIRECTION

WIND SPEED MAX METERS/SEC	WIND DIRECTION																NNW	NW	NNW	VAR	TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW					
GT 11. :	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	3
8. - 11. :	2	0	0	0	0	0	1	7	3	2	10	7	1	3	8	1	0	0	0	0	45
5. - 8. :	1	1	0	1	0	3	10	12	13	14	35	8	4	4	8	8	0	0	0	0	122
3. - 5. :	10	8	3	4	3	7	40	35	13	15	22	8	11	9	10	16	0	0	0	0	214
1. - 3. :	6	6	9	6	8	20	39	26	14	22	10	8	19	9	9	16	0	0	0	0	227
LT 1. :	3	3	2	3	5	5	6	6	9	4	4	3	8	1	6	2	0	0	0	0	70
TOTAL :	22	18	14	14	16	35	96	87	52	58	81	34	43	27	41	43	0	0	0	0	681
PERCENT	3.	3.	2.	2.	2.	5.	14.	13.	8.	9.	12.	5.	6.	4.	6.	6.	0.	0.	0.	0.	100.

0 = NO OBSERVATIONS

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

10 METER LEVEL

C-B SHALE OIL PROJECT

STATION AD42 PERIOD 07/01/81 - 07/31/81

Refer to pages II-365 through II-377

Less than 50% data reported

Mechanical Recordering Instrument was removed and replaced by an R.A. solar powered data acquisition system installed July 25, 1981. Monitoring of data and maintenance of the instrumentation was contracted to WestAq Corp. upon purchase of the equipment.

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

10 METER LEVEL

C-B SHALE OIL PROJECT

STATION AD56 PERIOD | 07/01/81 - 07/31/81

DATA NOT AVAILABLE AT REPORT TIME

FIVE MAXIMUM SLIDING AVERAGE
UG/M**3

C-R TRACT
SITE AR20
JULY 1981
OCCIDENTAL OIL SHALE, INC.

COMPONENT	AVG. TIME	RANK	DAY	HOUR(BEG)	VALUE
S02	3 HR	1	31	8	0.9
		2	31	13	0.9
		3	31	13	0.0
		4	31	13	0.0
		5	31	13	0.0
S02	24 HR	1	30	16	0.2
		2	30	16	0.0
		3	30	16	0.0
		4	30	16	0.0
		5	30	16	0.0
C0	1 HR	1	26	18	0.0
		2	26	19	0.0
		3	26	20	0.0
		4	26	21	0.0
		5	26	22	0.0
C0	8 HR	1	26	18	0.0
		2	27	2	0.0
		3	28	14	0.0
		4	3	12	0.0
		5	1	12	0.0
03	1 HR	1	31	16	160.9
		2	31	17	160.9
		3	31	15	158.9
		4	31	14	157.0
		5	31	18	157.0
PART	24 HR	1	5	1	32.3
		2	29	1	31.6
		3	8	1	29.7
		4	23	1	25.4
		5	11	1	22.9

FIVE MAXIMUM SLIDING AVERAGE
UG/M**3

C-R TRACT
SITE AR23
JULY 1981
OCCIDENTAL OIL SHALE, INC.

COMPONENT	AVG. TIME	RANK	DAY	HOUR (REG)	VALUE
S02	3 HR	1	28	11	8.7
		2	25	12	7.0
		3	27	8	7.0
		4	28	14	7.0
		5	28	22	7.0
S02	24 HR	1	28	7	5.9
		2	27	5	5.0
		3	29	7	4.9
		4	25	11	4.0
		5	24	10	3.6
C0	1 HR	1	1	1	1800.0
		2	1	2	1800.0
		3	1	3	1800.0
		4	1	4	1800.0
		5	1	5	1700.0
C0	8 HR	1	1	1	1800.0
		2	6	17	900.0
		3	6	9	800.0
		4	6	1	700.0
		5	5	17	600.0
O3	1 HR	1	5	11	113.8
		2	5	10	111.8
		3	5	12	111.8
		4	5	15	111.8
		5	5	16	111.8
PART	24 HR	1	8	1	57.0
		2	29	1	56.9
		3	23	1	48.9
		4	20	1	42.5
		5	11	1	29.3

FIVE MAXIMUM SLIDING AVERAGE
UG/M**3

C-B TRACT
SITE AD56
JULY 1981
OCCIDENTAL OIL SHALE, INC.

COMPONENT	AVG. TIME	RANK	DAY	HOUR(BEG)	VALUE
PART	24 HR				
		1	8	1	74.3
		2	29	1	33.8
		3	17	1	21.9
		4	23	1	21.8
		5	26	1	10.9

SOURCE OF DATA REPORTED
PERCENT

C-b TRACT
TRAILER AB20
JULY 1981
OCCIDENTAL OIL SHALE, INC.

	NO	NO _x	NO ₂	O ₃	CO	SO ₂
MULTIPOINT RECORDER *						
DATA ACQUISITION SYSTEM	90	90	90	98	98	62
OTHER SYSTEMS						
EFFICIENCY	90	90	90	98	98	62

MULTIPOINT
RECORDER *

DATA ACQUISITION
SYSTEM

OTHER SYSTEMS

EFFICIENCY

* Serves as Back-up to Data Acquisition System

SOURCE OF DATA REPORTED
PERCENT

C-b TRACT
TRAILER AB20
JULY 1981
OCCIDENTAL OIL SHALE, INC.

	WS	WD	SIGMA HWD 10m	TEMP	INVERS. HT	STB 50m	STB 200m	PART	PRECIP.
--	----	----	------------------	------	---------------	------------	-------------	------	---------

MULTIPOINT
RECORDER *

DATA ACQUISITION
SYSTEM

	98	98	98	98				100	
--	----	----	----	----	--	--	--	-----	--

OTHER SYSTEMS

					100	100	100		100
--	--	--	--	--	-----	-----	-----	--	-----

EFFICIENCY

	98	98	98	98	100	100	100	100	100
--	----	----	----	----	-----	-----	-----	-----	-----

* Serves as Back-up to Data Acquisition System

SOURCE OF DATA REPORTED
PERCENT

C-b TRACT
TRAILER AB23
JULY 1981
OCCIDENTAL OIL SHALE, INC.

NO	NO _x	NO ₂	O ₃	SO ₂	H ₂ S	CO	BAR PRESS.	SOLAR RAD.
----	-----------------	-----------------	----------------	-----------------	------------------	----	---------------	---------------

MULTIPOINT
RECORDER *

DATA AQUISITION
SYSTEM

64	66	64	91	63	74	86	87	92
----	----	----	----	----	----	----	----	----

OTHER SYSTEMS

EFFICIENCY

64	66	64	91	63	74	86	87	92
----	----	----	----	----	----	----	----	----

* Serves as Back-up to Data Aquisition System

SOURCE OF DATA REPORTED
PERCENT

C-b TRACT
TRAILER AB23
JULY 1981
OCCIDENTAL OIL SHALE, INC.

	TMP 10m	TMP 30m	TMP 60m	DT 60-10m	RH	PART	PREC
--	------------	------------	------------	--------------	----	------	------

MULTIPOINT
RECORDER *

DATA ACQUISITION
SYSTEM

92	92	92	92	92	96	100	100
----	----	----	----	----	----	-----	-----

OTHER SYSTEMS

					96		100
--	--	--	--	--	----	--	-----

EFFICIENCY

92	92	92	92	92	96	100	100
----	----	----	----	----	----	-----	-----

* Serves as Back-up to Data Acquisition System

C-bTRACT
TRAILER AB23
JULY 1981
OCCIDENTAL OIL SHALE, INC.

SOURCE OF DATA REPORTED
PERCENT

SIGMA HWD 10m	SIGMA HWD 30m	SIGMA HWD 60m	WS 10m	WS 30m	WS 60m	WD 10m	WD 30m	WD 60m
------------------	------------------	------------------	-----------	-----------	-----------	-----------	-----------	-----------

MULTIPOINT
RECORDER *

DATA ACQUISITION
SYSTEM

92	92	92	92	92	92	92	92	92
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OTHER SYSTEMS

92	92	92	92	92	92	92	92	92
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EFFICIENCY

*Serves as Back-up to Data Acquisition System

SOURCE OF DATA REPORTED
PERCENT

C-b TRACT
SITE AD42
JULY 1981
OCCIDENTAL OIL SHALE, INC.

WS 10m
WD 10m
TMP 10m

OTHER SYSTEMS

EFFICIENCY

SOURCE OF DATA REPORTED
PERCENT

C-b TRACT
SITE AD56
JULY 1981
OCCIDENTAL OIL SHALE, INC.

WS
± 0m

WD
10m

TMP
10m

PART

OTHER SYSTEMS

90

EFFICIENCY

90

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DATA REPORT

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK, COLORADO

Met. Station #1
(AD42)

July 1981

PREPARED FOR:

Ed B. Baker
Project Environmental Coordinator
Occidental Oil Shale, Inc.
Star Route
Rifle, Colorado

PREPARED BY:

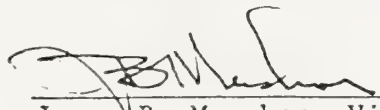
WestAq Corporation
Parachute, Colorado
(303) 285-7700

DATA CERTIFICATION STATEMENT

WESTAQ CORPORATION HEREBY CERTIFIES THAT ALL DATA PRESENTED IN THIS REPORT IS ACCURATE TO THE SPECIFICATIONS OF THE RECORDING INSTRUMENTATION. NO EDITING OR ALTERATION HAS BEEN PERFORMED OTHER THAN TO CORRECT OCCASIONAL COSMETIC DETAILS. ALL CALCULATIONS ARE DONE BY COMPUTER PROGRAM AND NOT SUBJECT TO OPERATOR ERRORS.

DUE TO THE NATURE OF THE DIGITAL ACQUISITION SYSTEM AND COMPUTER REDUCTION, MINIMUM POSSIBILITY EXISTS FOR CHART INTERPRETATIONS, MACHINE ENTRY AND CALCULATION ERRORS, OR ARBITRARY DATA ALTERATION.

FOR THE CORPORATION:

 7/8.81
James B. Mershon, Vice Pres.

SYSTEM PERFORMANCE

NO DATA LOSS OR ANY ERRORS DETECTED.

THIS PERIOD REPRESENTS 100% DATA RECORDING
AND RETRIEVAL.

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

WIND ROSE VALUES

~~~~~ NUMBER OF OCCURRENCES: ~~~~~

	<3	3-7	7-12	>12MPH	
N	0	0	1	0	(1)
N N E	2	3	1	0	(6)
N E	4	6	2	0	(14)
E N E	5	16	3	0	(24)
E	3	17	7	1	(28)
E S E	0	8	2	0	(10)
S E	1	0	6	2	(9)
S S E	0	1	5	2	(8)
S	2	0	2	4	(8)
S S W	0	1	4	3	(8)
S W	0	0	1	8	(9)
W S W	3	3	4	5	(15)
W	0	3	2	2	(7)
W N W	1	1	2	2	(6)
N W	2	3	2	4	(11)
N N W	1	2	1	0	(4)

(26)(64)(45)(33)

%% ~~~~~ PERCENTAGES OF OCCURRENCES: ~~~~~ %%

	<3	3-7	7-12	>12MPH	
N	0.0	0.0	0.6	0.0	(0.6)
N N E	1.2	1.8	0.6	0.0	(3.6)
N E	3.6	3.6	1.2	0.0	(8.3)
E N E	3.0	9.5	1.8	0.0	(14.3)
E	1.8	10.1	4.2	0.6	(16.7)
E S E	0.0	4.8	1.2	0.0	(6.0)
S E	0.6	0.0	3.6	1.2	(5.4)
S S E	0.0	0.6	3.0	1.2	(4.8)
S	1.2	0.0	1.2	2.4	(4.8)
S S W	0.0	0.6	2.4	1.8	(4.8)
S W	0.0	0.0	0.6	4.8	(5.4)
W S W	1.8	1.8	2.4	3.0	(8.9)
W	0.0	1.8	1.2	1.2	(4.2)
W N W	0.6	0.6	1.2	1.2	(3.6)
N W	1.2	1.8	1.2	2.4	(6.5)
N N W	0.6	1.2	0.6	0.0	(2.4)

(15.5)(38.1)(26.8)(19.6)

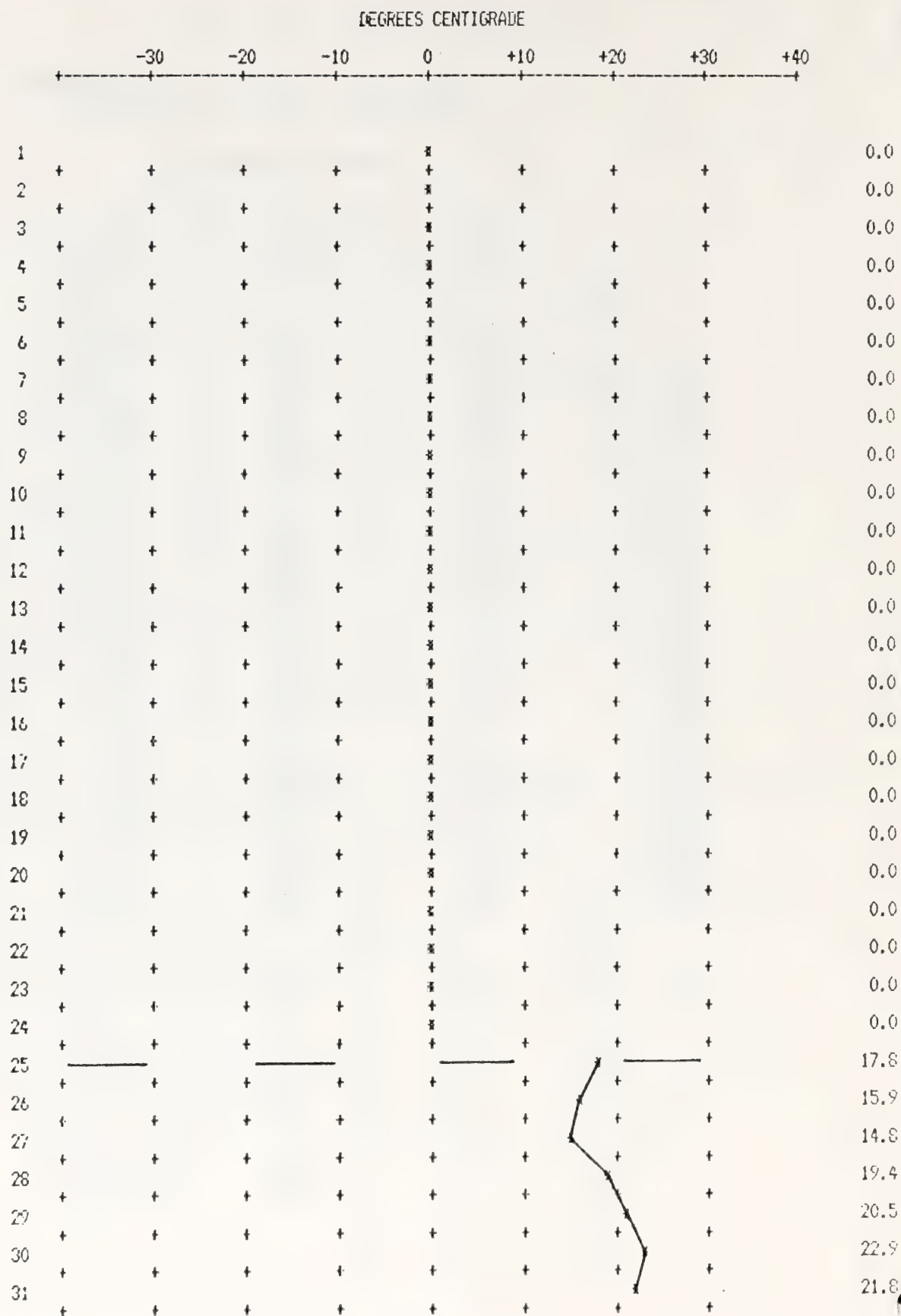
FROM 206 0 THRU 212 2300 FOR 168 SAMPLES IN JULY 1981

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	5.1	114	12.8	0.00
100	5.9	85	12.1	0.00
200	5.7	89	11.9	0.00
300	5.2	76	11.7	0.00
400	4.7	98	10.9	0.00
500	4.6	102	10.5	0.00
600	3.8	111	11.1	0.03
700	2.8	91	14.9	0.14
800	6.0	126	19.6	0.28
900	6.5	208	23.5	0.40
1000	9.5	198	24.4	0.42
1100	10.5	224	25.3	0.60
1200	10.9	202	26.0	0.59
1300	12.8	207	26.0	0.42
1400	10.2	229	27.5	0.37
1500	17.2	260	25.1	0.44
1600	12.3	250	26.7	0.34
1700	11.2	222	25.3	0.18
1800	9.0	214	23.1	0.07
1900	8.0	178	21.3	0.01
2000	8.0	129	19.5	0.00
2100	5.0	84	17.1	0.00
2200	3.2	104	15.4	0.00
2300	5.3	73	14.8	0.00
MAX	22.2	345	31.1	1.24
MIN	0.2	7	2.6	0.00
AVG	7.6	153	19.0	0.18
	MPH	DEG	CENT	LGly

-> -> -> -> -> -> -> MONTHLY AVERAGE FOR JULY 1981



CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	0.9	28	12.4	0.00
100	9.7	157	13.7	0.00
200	9.6	92	13.7	0.00
300	3.1	118	13.5	0.00
400	3.3	51	12.4	0.00
500	7.2	126	11.6	0.00
600	4.6	322	10.8	0.00
700	1.5	92	12.4	0.00
800	7.0	147	16.3	0.13
900	2.0	308	20.0	0.21
1000	8.3	124	22.4	0.27
1100	14.1	213	24.8	0.32
1200	9.0	22	25.0	0.32
1300	14.4	222	27.3	0.32
1400	7.9	56	27.4	0.31
1500	20.2	206	25.0	0.26
1600	18.0	233	27.6	0.23
1700	13.3	152	25.2	0.06
1800	15.1	311	18.4	0.00
1900	20.7	101	13.7	0.00
2000	6.7	96	13.9	0.00
2100	9.0	78	13.7	0.00
2200	3.1	331	13.5	0.00
2300	8.8	140	13.0	0.00
MAX	20.7	331	27.6	0.32
MIN	0.9	22	10.8	0.00
AVG	9.1	155	17.8	0.10
	MPH	DEG	CENT	LGGLY

25 JUL. '81 (206)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	11.6	266	12.6	0.00
100	9.4	90	12.4	0.00
200	7.1	89	14.1	0.00
300	5.3	73	13.9	0.00
400	9.4	109	14.7	0.00
500	5.3	70	11.1	0.00
600	1.9	81	12.9	0.01
700	1.1	285	14.9	0.08
800	12.3	137	19.3	0.17
900	16.2	166	21.5	0.26
1000	22.2	185	22.5	0.33
1100	16.5	187	23.5	0.39
1200	21.0	223	24.0	0.34
1300	12.4	176	26.6	0.32
1400	9.5	238	25.0	0.08
1500	13.1	313	19.0	0.00
1600	10.5	292	15.2	0.00
1700	8.4	54	11.5	0.00
1800	3.9	115	12.0	0.00
1900	3.8	149	11.9	0.00
2000	7.8	131	11.6	0.00
2100	3.1	119	11.5	0.00
2200	1.1	71	9.9	0.00
2300	1.2	36	9.5	0.00
MAX	22.2	313	26.6	0.39
MIN	1.1	36	9.5	0.00
AVG	8.9	152	15.9	0.08
	MPH	DEG	CENT	LGLY

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	2.8	190	9.7	0.00
100	1.7	47	7.5	0.00
200	8.3	128	7.2	0.00
300	4.1	79	6.3	0.00
400	0.2	252	5.8	0.00
500	1.6	257	6.2	0.00
600	3.0	75	2.6	0.02
700	2.3	43	8.8	0.05
800	1.6	312	10.6	0.25
900	1.2	345	17.1	0.37
1000	5.2	282	13.5	0.10
1100	9.4	294	19.4	0.36
1200	3.0	329	21.0	0.38
1300	4.7	250	20.0	0.39
1400	5.3	322	22.5	0.30
1500	17.4	306	23.9	0.30
1600	10.1	320	24.2	0.23
1700	8.7	304	24.1	0.12
1800	13.4	310	23.3	0.07
1900	6.2	316	22.5	0.01
2000	3.8	61	18.2	0.00
2100	4.9	77	15.2	0.00
2200	3.3	62	12.5	0.00
2300	7.1	82	12.1	0.00
MAX	17.4	345	24.2	0.39
MIN	0.2	43	2.6	0.00
AVG	5.4	210	14.8	0.12
	MPH	DEG	CENT	LGLY

27 JUL. '81 (208)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	7.1	94	11.5	0.00
100	2.2	63	10.4	0.00
200	4.5	64	9.0	0.00
300	5.0	76	8.5	0.00
400	4.8	69	7.2	0.00
500	4.6	94	8.2	0.00
600	3.0	63	9.1	0.05
700	3.6	47	14.5	0.18
800	4.4	54	19.8	0.15
900	2.2	240	24.9	0.35
1000	2.5	125	27.4	0.42
1100	16.2	260	25.7	0.49
1200	14.3	263	27.0	0.37
1300	16.8	254	27.6	0.34
1400	9.2	328	28.5	0.27
1500	17.2	292	28.0	0.25
1600	19.7	258	27.7	0.16
1700	13.3	282	27.5	0.15
1800	11.0	206	23.0	0.07
1900	8.7	229	25.3	0.01
2000	10.0	194	23.2	0.00
2100	3.1	95	19.1	0.00
2200	2.2	28	16.7	0.00
2300	3.9	31	14.8	0.00
MAX	19.7	328	28.5	0.49
MIN	2.2	28	7.2	0.00
AVG	7.9	155	19.4	0.14
	MPH	DEG	CENT	LG/LY

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	4.8	31	13.6	0.00
100	4.3	82	12.6	0.00
200	4.1	70	12.0	0.00
300	5.7	86	11.9	0.00
400	3.9	69	10.6	0.00
500	4.6	82	9.6	0.00
600	5.2	78	10.8	0.03
700	2.0	35	15.0	0.18
800	4.7	41	22.3	0.55
900	6.2	52	26.9	0.25
1000	5.2	274	29.5	0.38
1100	7.8	156	26.9	0.37
1200	4.4	89	27.2	0.29
1300	16.1	127	26.1	0.25
1400	9.7	168	29.7	0.50
1500	14.0	234	21.4	0.55
1600	2.0	170	30.8	0.42
1700	5.0	260	28.3	0.10
1800	5.2	263	28.4	0.11
1900	5.6	121	23.6	0.01
2000	11.7	124	22.3	0.00
2100	2.4	41	19.0	0.00
2200	4.4	83	17.9	0.00
2300	6.7	81	16.8	0.00
MAX	16.1	274	30.8	0.55
MIN	2.0	31	9.6	0.00
AVG	6.1	117	20.5	0.17
	MPH	DEG	CENT	LGLY

29 JUL. '81 (210)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	5.3	87	15.5	0.00
100	8.7	72	15.8	0.00
200	3.5	103	14.5	0.00
300	6.0	15	15.8	0.00
400	6.2	55	14.6	0.00
500	1.8	77	15.4	0.00
600	4.0	76	18.5	0.04
700	4.2	68	20.8	0.17
800	6.1	102	24.7	0.55
900	7.4	154	27.3	0.66
1000	15.1	191	27.0	0.56
1100	5.4	249	27.4	1.04
1200	8.2	276	27.6	1.24
1300	14.9	226	30.1	1.00
1400	18.0	239	30.8	0.88
1500	19.6	224	29.5	0.77
1600	15.3	233	30.4	0.60
1700	19.6	256	29.5	0.41
1800	12.7	215	28.6	0.19
1900	6.1	244	26.9	0.03
2000	7.8	179	23.9	0.00
2100	3.3	80	20.1	0.00
2200	2.8	48	17.7	0.00
2300	2.1	73	18.3	0.00
MAX	19.6	276	30.8	1.24
MIN	1.8	15	14.5	0.00
AVG	8.5	148	22.9	0.34
	MPH	DEG	CENT	LGLY

30 JUL. 1981 (211)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	3.0	104	14.4	0.00
100	5.1	82	12.0	0.00
200	2.9	74	12.9	0.00
300	7.5	82	11.8	0.00
400	4.9	84	10.9	0.00
500	7.1	7	11.2	0.00
600	4.8	81	12.8	0.03
700	5.0	68	17.9	0.31
800	6.0	90	24.5	0.16
900	10.5	190	26.5	0.73
1000	7.7	203	28.7	0.89
1100	4.2	206	29.7	1.22
1200	16.6	213	30.1	1.22
1300	10.2	197	24.0	0.35
1400	11.7	249	28.7	0.22
1500	13.8	247	29.0	0.96
1600	10.8	246	30.8	0.74
1700	10.2	249	31.1	0.45
1800	1.9	79	27.8	0.06
1900	5.0	84	25.3	0.04
2000	8.0	116	23.3	0.01
2100	9.1	100	20.8	0.00
2200	5.3	107	19.5	0.00
2300	7.2	70	19.3	0.00
MAX	18.8	249	31.1	1.22
MIN	1.9	7	10.9	0.00
AVG	7.6	135	21.8	0.31
	MPH	DEG	CENT	LGLY

31 JUL. '81 (212)

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**AIR MONITORING REPORT
FOR
PROTOTYPE OIL SHALE LEASE TRACT C-B**

AUGUST 1981

**SUBMITTED
DECEMBER 28, 1981**



**PREPARED BY :
OCCIDENTAL OIL SHALE, INC. OPERATOR
P.O. BOX 2687
GRAND JUNCTION, COLORADO 81501**

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NITRIC OXIDE
(UG/M3)

CR-TRACT
TRAILER AR20
AUG 1991
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
AV	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
PK	2	2	1	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6

NITRIC OXIDE
(U₅/M³)

CR-TRACT
TRAILER AR23
AUG 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
2	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
3	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
4	1	1	1	1	1	2	1	1	0	0	0	0	0	1	1	1	1	0	1	0	1	1	1	0	()	1
5	0	0	1	1	0	0	1	1	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
6	0	0	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	0	2
7	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	0	1
8	0	0	0	0	0	0	1	1	1	1	1	0	1	1	1	1	0	0	1	1	1	1	0	0	1	1
9	0	1	1	1	1	1	1	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	1	1	1	1	1	1	1	1	1	1	1	2	(CA)	0	0	0	0	0	0	0	0	0	0	0	1	4
11	1	0	0	0	0	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
12	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	1	2	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	2	0	0	0	0	0	0	0	0	2	4	4	1	2	4	4	4	2	1	1	1	2	2	2	4
27	4	5	2	4	4	4	4	4	4	5	5	5	2	2	2	2	2	1	1	1	1	1	1	1	1	5
28	4	4	4	4	4	4	5	4	1	1	1	2	1	1	0	1	1	1	1	1	1	1	1	1	1	5
29	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
30	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
31	2	2	2	2	2	2	2	2	2	0	0	1	0	0	0	1	1	2	2	1	1	1	1	1	1	2
AV	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	6
PK	4	5	4	4	4	4	5	4	4	6	5	5	4	2	2	4	4	4	2	2	2	2	2	2	2	6

OXIDES OF NITROGEN
(UG/M3)

CR-THACT
TRAILER AR20
AUG 1991
OCCIDENTAL OIL SHALE INC.

DAY	HOUR (LOCAL STANDARD TIME)																								AVE PEAK
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	4	2	4	2	2	4	4	4	2	2	2	2	2	2	2	2	2	2	2	2	4	2	4	4	3
2	4	4	4	2	4	4	4	4	2	2	0	0	0	0	0	0	0	0	0	0	6	13	6	8	4
3	4	4	2	2	2	6	4	4	2	2	0	0	0	0	0	0	0	0	0	0	2	2	4	2	4
4	2	0	2	2	0	4	6	2	2	0	0	0	0	0	0	0	0	0	0	2	2	2	0	0	1
5	2	0	0	0	0	6	6	2	6	2	0	0	0	0	0	0	0	0	0	4	23	9	9	0	23
6	11	0	4	2	0	6	4	4	2	2	0	0	0	0	0	0	0	0	0	0	0	2	2	4	11
7	2	2	2	2	2	4	4	4	2	2	2	0	0	0	0	0	0	0	0	0	6	2	4	4	2
8	4	6	2	0	9	0	4	4	2	2	0	0	0	0	0	0	0	0	0	4	0	2	0	0	1
9	4	2	2	2	6	4	4	4	2	0	0	0	0	0	0	0	0	0	0	0	2	2	0	2	9
10	4	2	2	4	2	2	4	4	6	4	2	2	4	2	4	2	2	2	6	4	8	6	8	6	2
11	4	2	4	4	2	4	4	4	2	0	2	2	4	2	4	4	2	2	2	4	4	2	2	6	2
12	4	4	4	0	4	4	11	4	2	2	0	0	0	0	0	0	0	0	0	2	4	2	2	2	4
13	2	2	0	2	2	6	2	4	2	2	0	0	2	0	0	0	0	0	0	2	2	2	4	2	1
14	2	2	2	0	0	4	4	4	2	0	2	0	0	0	0	0	0	0	0	2	2	4	4	2	2
15	2	0	0	0	0	2	4	4	2	2	0	0	0	0	2	0	0	0	0	2	2	2	0	0	1
16	2	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
17	0	0	0	0	0	4	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
18	2	0	0	0	0	4	6	4	4	0	0	0	0	0	0	0	0	0	0	4	4	2	4	0	1
19	4	4	4	4	4	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
20	2	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
21	2	0	0	0	0	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
22	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1
24	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	0	0	2	2	2	2
25	2	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	2	2	0	2	2	2	2
26	2	0	0	0	2	4	4	8	6	2	0	0	0	0	0	0	0	0	2	2	2	4	2	2	2
27	4	2	0	2	4	9	4	4	2	0	0	0	0	0	2	4	2	2	0	0	2	2	2	2	2
28	2	2	2	2	2	4	4	4	2	0	0	0	2	2	0	0	0	0	2	2	2	2	2	2	1
29	2	2	2	2	0	2	4	2	2	0	2	2	0	0	0	2	0	0	0	0	0	0	0	0	1
30	0	0	0	2	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1
31	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	2	0	2	0	0	2	2	2	2
AV	3	2	1	1	2	3	4	3	2	1	0	0	1	0	1	1	1	1	1	2	3	3	3	2	2
PK	11	4	4	4	9	9	11	8	6	4	2	2	4	2	4	4	4	6	6	13	23	13	9	9	23

CH-TRACT
TRAILER AR23
AUG 1981
OCCIDENTAL OIL SHALE INC.

OXIDES OF NITROGEN
(UG/M3)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
2	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
3	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
4	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	6	4	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	2	2	0	0	0	0	0	0	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	2	2	0	6 (CA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AV	0	1	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PK	2	9	17	6	4	8	6	8	4	15	4	6	0	0	0	0	0	4	4	0	0	0	0	0	9	17

NITROGEN DIOXIDE
(UG/M3)

CR-TRACT
TRAILER AR20
AUG 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	2	0	2	0	0	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2	1	2
2	4	2	2	0	0	4	4	2	0	0	0	0	0	0	0	0	0	4	0	9	4	4	6	6	2	1
3	2	0	0	0	0	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	1	4
4	0	0	0	0	0	4	4	0	4	0	0	0	0	0	0	0	0	0	0	2	15	6	6	0	0	4
5	0	4	6	0	0	4	6	2	0	0	0	0	0	0	0	0	0	0	2	4	0	8	6	2	2	15
6	2	0	0	2	2	4	8	2	0	2	2	0	0	0	0	0	0	0	0	2	0	6	4	4	2	8
7	0	2	0	0	4	0	4	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	8
8	2	4	2	2	4	2	2	2	0	0	0	0	0	0	0	0	0	0	0	2	8	0	4	4	2	4
9	2	4	2	2	4	2	2	2	0	0	0	0	0	0	0	0	2	0	4	2	8	2	0	0	1	8
10	0	2	2	2	2	0	4	2	0	2	0	0	6	0	2	2	2	0	2	6	4	4	6	2	1	6
11	0	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	6	0	2	6	2	0	0	0	1	6
12	0	0	2	0	2	2	2	0	0	0	0	0	0	0	0	0	0	2	2	0	2	0	0	2	1	2
13	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0	2	2	2	2	0	0	0	1	2
14	0	0	0	0	0	4	6	0	0	0	0	0	0	0	0	0	0	2	2	4	2	4	0	0	1	2
15	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2	0	0	1	2
16	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	2	2	2	0	0	0	0	2
17	0	0	0	0	0	4	2	0	0	0	0	0	0	0	0	0	0	0	4	2	0	0	0	0	0	4
18	0	0	0	0	0	2	4	0	2	0	0	0	0	0	0	0	0	0	0	4	2	0	0	0	0	4
19	4	4	2	0	2	4	4	2	2	0	0	0	0	0	0	0	0	0	0	4	2	0	0	0	1	4
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4
21	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0
24	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)
25	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2	0	0	0
26	0	0	0	0	2	2	4	4	2	0	0	0	0	0	0	0	0	0	2	0	2	2	2	0	0	0
27	2	0	0	0	2	6	6	2	0	0	0	0	0	0	0	2	0	0	0	0	4	2	2	0	1	4
28	0	0	0	0	0	2	2	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	6
29	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
30	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	2
AV	1	1	1	1	1	2	2	1	0	0	0	0	0	0	0	0	0	0	1	1	2	2	2	1	1	15
PK	8	4	6	2	4	6	8	4	4	2	2	2	6	0	2	2	6	4	4	9	15	8	6	6	1	15

NITROGEN DIOXIDE
(UG/M3)

CR-TRACT
TRAILER AR23
AUG 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
2	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
3	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
4	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
5	0	0	0	4	4	0	0	0	0	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	8	1
6	2	2	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	(PF)	(PF)	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	4	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	17
27	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AV	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PK	2	4	17	4	4	4	4	4	0	6	2	2	0	0	0	0	0	0	0	0	0	0	0	0	8	17

OZONE
(UG/M3)

CR-TRACT
TRAILER AR20
AUG 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	104	102	112	102	90	86	84	98	118	122	122	123	123	125	118	122	120	114	120	122	104	98	82	84	108	125
2	78	74	73	73	65	65	69	78	100	116	120	116	114	114	114	114	106	106	112	73	78	63	69	65	90	120
3	67	67	67	67	65	61	65	74	94	102	102	100	100	100	100	100	100	100	100	86	71	63	61	61	82	102
4	63	63	63	63	61	59	59	69	88	94	94	94	94	98	98	102	98	95	92	71	61	59	57	57	77	102
5	53	51	43	47	49	45	49	61	80	94	98	96	86	86	80	76	76	73	69	53	41	45	47	35	64	98
6	35	37	33	33	35	29	35	53	69	73	(CA)	90	98	98	94	96	96	100	90	84	82	63	47	49	66	100
7	47	49	51	45	43	41	43	67	82	88	94	94	94	100	94	96	96	92	96	92	90	65	53	45	73	100
8	51	53	57	57	49	51	51	65	80	92	100	96	99	100	102	106	106	102	90	71	59	63	86	90	78	106
9	78	71	55	49	47	41	39	63	74	78	88	90	90	90	90	90	88	88	84	82	65	61	55	59	72	90
10	49	41	31	22	25	27	24	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	49	
11	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	71	78	78	76	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	78
12	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	
13	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	65	86	88	84	92	86	90	86	76	88	69	55	49	53	53	76	92
14	51	53	49	47	43	47	39	51	80	96	74	78	82	92	94	98	96	86	65	61	55	65	61	61	68	98
15	39	35	27	35	35	29	35	49	73	92	94	94	92	88	78	88	92	90	74	67	51	47	43	37	62	94
16	43	47	43	39	45	41	29	47	51	88	78	96	96	96	98	98	96	98	94	86	73	61	55	55	69	98
17	49	47	45	43	41	37	41	57	80	88	86	96	88	88	88	88	86	86	82	59	55	45	39	39	65	96
18	35	37	37	39	39	33	(CA)	(CA)	(CA)	(CA)	(CA)	88	88	82	78	80	76	78	74	51	41	41	39	41	57	88
19	41	41	39	41	39	41	41	49	(CA)	(CA)	(CA)	(MT)	(MT)	(MT)	(MT)	78	88	78	71	55	47	43	37	37	51	88
20	41	39	43	43	45	37	37	51	61	88	86	92	92	92	90	90	88	84	80	57	57	49	47	47	64	92
21	47	45	43	43	45	43	47	49	59	73	74	73	71	69	76	76	67	63	63	51	43	31	22	16	54	76
22	16	14	16	16	18	22	35	33	57	67	74	78	78	78	80	78	78	76	73	61	49	45	39	39	51	80
23	35	39	39	35	35	35	35	49	69	86	90	92	92	88	80	80	78	78	73	69	51	49	41	45	61	92
24	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	61	59	61	57	61	61	57	45	54	47	39	37	33	52	61
25	29	27	29	27	25	25	27	39	53	71	71	71	82	82	86	84	80	35	20	25	25	22	20	10	45	85
26	18	20	14	18	16	16	10	20	37	49	63	67	35	31	43	51	53	59	59	55	39	24	27	25	35	67
27	31	29	29	25	16	16	16	25	41	57	61	61	55	57	55	55	55	57	49	39	35	27	22	22	39	61
28	20	20	18	18	14	14	20	29	41	53	55	61	57	55	57	57	61	63	51	35	37	33	33	43	39	63
29	35	35	35	37	41	41	37	39	57	67	57	69	73	63	61	67	67	61	49	49	37	39	39	49	51	73
30	45	41	31	51	53	39	33	41	53	59	65	74	74	76	78	82	73	67	55	51	57	49	45	53	56	82
31	51	43	37	33	27	22	20	31	(CA)	(CA)	96	94	94	98	98	90	86	90	96	94	78	69	74	67	68	98
AV	46	45	43	43	41	39	39	52	69	82	85	86	85	85	84	86	84	80	75	65	57	50	48	47	63	
PK	106	102	112	102	90	86	84	98	118	122	122	123	123	125	118	122	120	114	120	122	104	98	86	90		125

OZONE
(UG/M3)

CR-TRACT
TRAILER AR23
AUG 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()	()
2	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()	()
3	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()	()
4	76	74	76	78	74	73	73	80	82	80	82	82	84	88	88	88	86	84	84	82	76	71	73	73	74	84
5	59	61	59	59	59	65	57	65	76	78	82	84	84	84	80	76	74	76	76	69	63	67	73	55	70	84
6	63	63	63	65	63	59	61	57	69	73	76	80	88	86	86	84	88	88	86	82	80	74	74	73	74	88
7	73	73	71	67	69	69	63	67	73	80	84	86	84	88	88	84	86	86	84	82	80	76	73	69	77	88
8	73	71	69	73	71	69	65	65	71	82	86	84	84	86	86	88	90	90	82	82	76	73	74	76	77	90
9	71	67	59	59	59	53	55	59	65	67	74	74	74	74	76	74	74	74	71	67	63	59	59	57	66	78
10	51	39	37	29	29	31	24	33	43	43	51	55	59	51	49	55	49	49	41	45	39	35	25	22	41	59
11	27	27	25	24	22	24	27	41	39	41	47	47	51	53	63	65	59	59	53	45	49	37	35	37	41	65
12	33	27	22	25	27	27	22	29	43	57	73	74	74	71	69	71	71	73	57	45	41	43	49	45	49	74
13	49	51	45	45	45	45	47	55	55	73	74	73	76	78	74	73	74	71	69	63	59	55	59	59	62	78
14	65	63	61	61	61	59	55	55	73	80	73	69	(CA)	96	96	96	96	96	88	82	74	71	76	90	74	96
15	86	90	92	86	82	76	73	65	82	92	96	96	98	96	98	96	84	90	84	78	78	78	76	78	84	98
16	73	71	71	71	69	61	61	61	67	82	94	96	98	96	98	96	82	94	94	84	82	84	88	88	82	98
17	84	76	78	76	80	74	65	(CA)	(CA)	(CA)	(CA)	84	88	84	82	88	86	82	80	74	73	65	67	63	78	88
18	65	65	63	63	59	47	49	53	61	61	84	88	86	82	82	84	84	86	76	67	69	69	65	69	70	88
19	71	74	73	69	73	78	69	67	78	84	86	84	92	82	82	82	84	86	86	76	71	73	74	77	86	
20	71	78	74	74	76	71	67	74	74	84	82	86	94	92	94	92	94	92	88	78	78	78	74	73	81	94
21	65	73	76	74	73	73	69	74	73	74	78	74	82	84	84	82	80	80	73	65	67	65	63	55	73	84
22	47	59	55	53	57	59	69	65	69	84	86	88	88	88	90	90	92	92	85	80	80	76	80	82	76	92
23	82	82	76	74	78	71	65	65	90	96	96	96	100	94	92	94	96	94	92	90	82	84	82	80	86	100
24	84	90	88	84	82	76	78	63	57	63	65	(PF)	(PF)	57	57	57	57	63	61	61	67	63	61	61	68	90
25	61	65	61	69	67	71	65	57	69	78	80	78	78	78	80	80	78	69	69	69	61	63	55	55	69	80
26	51	45	31	53	59	55	53	47	45	43	57	65	71	74	74	76	78	80	78	75	73	71	69	65	62	80
27	65	47	47	57	51	57	47	57	69	76	80	80	78	78	78	80	80	74	76	74	69	61	57	59	67	80
28	63	55	55	63	65	67	63	53	69	73	78	78	74	69	67	74	80	80	71	67	74	78	82	76	70	82
29	74	74	73	73	74	78	82	82	84	90	90	90	94	94	94	98	92	76	61	69	65	63	61	57	79	98
30	63	61	69	74	74	71	69	73	76	80	94	100	96	100	106	104	94	82	78	76	76	76	76	76	81	106
31	76	73	71	67	63	59	61	65	74	92	94	90	92	96	96	90	84	92	94	88	80	76	86	86	81	96
AV	65	64	62	63	63	61	59	60	68	74	79	81	83	81	82	83	82	81	77	72	68	67	67	65	71	
PK	86	90	92	86	82	78	82	82	90	96	96	100	100	100	106	104	96	96	94	90	82	84	88	88		106

CARBON MONOXIDE
(UG/MT)

CR-TRACT
TRAILER AH20
AUG 1991
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	700	600	600	600	600	600	600	500	300	200	300	200	200	100	200	100	100	100	200	300	200	200	200	100	300	700
2	100	100	0	100	100	100	100	100	0	0	0	0	800	900	800	800	900	800	900	900	1000	1100	1000	1000	500	1100
3	900	900	800	800	800	800	900	800	600	600	600	500	0	0	0	0	0	0	100	0	100	200	100	100	400	900
4	100	100	100	100	100	100	100	200	0	0	0	0	600	600	500	500	500	500	500	600	600	600	600	600	300	600
5	600	500	500	500	500	600	600	600	600	600	500	500	300	300	300	300	200	500	500	300	300	500	500	500	500	600
6	200	200	200	500	500	500	600	600	600	500	200	300	0	0	100	100	0	0	100	0	0	100	0	0	200	600
7	0	0	0	0	0	0	100	100	100	0	100	0	100	100	200	200	200	200	200	100	200	200	200	200	100	200
8	200	200	100	100	200	200	300	200	200	200	100	200	0	0	0	0	0	0	0	0	0	0	0	0	100	300
9	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	100
10	0	0	0	0	0	0	0	0	0	0	0	0	200	300	300	200	100	200	100	0	0	100	0	0	100	300
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	100	100	100	100	100	200	200	200	200	300	500	300	0	0	0	0	0	0	100	200	0	0	0	0	0	500
15	0	0	0	0	0	0	0	0	0	0	0	100	700	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	100	700
16	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	200	200	100	100	200	200	200	200	300	300	200	100	200	300
17	200	200	100	100	100	200	200	200	200	300	200	200	500	300	500	500	300	300	300	300	500	500	500	500	300	500
18	300	300	300	300	300	300	300	300	300	300	500	300	300	300	300	300	300	300	300	300	200	200	200	200	300	500
19	100	100	100	100	100	200	200	200	200	100	100	(MT)	(MT)	(MT)	(MT)	500	600	500	500	500	500	500	600	500	300	600
20	600	1000	500	500	500	300	500	500	500	300	500	600	500	300	500	300	300	300	500	500	600	600	500	300	500	1000
21	300	300	300	300	300	300	500	600	600	500	600	600	200	200	100	200	300	300	200	200	100	100	0	0	300	600
22	0	0	0	0	0	0	0	0	100	0	100	0	600	500	500	500	500	500	600	600	500	500	500	500	300	600
23	300	300	300	300	300	300	300	500	500	500	500	300	100	100	300	200	100	200	200	200	300	300	300	100	300	500
24	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	()	()	()
25	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	300	300	300	300	500	600	500	300	300	300	300	200	400	600
26	200	200	200	200	200	200	500	500	500	600	500	500	700	500	500	600	500	600	600	600	600	600	600	500	400	600
27	600	600	600	600	600	600	700	800	700	1000	1800	1800	700	700	800	900	900	900	900	800	800	800	800	700	800	1800
28	700	700	700	700	700	700	800	800	800	600	500	500	300	200	200	300	300	500	500	500	500	500	500	500	500	800
29	500	300	300	300	500	300	500	500	600	500	500	300	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	400	600
30	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	200	100	200	200	200	100	100	100	100	100	100	300	200	300
31	100	0	0	0	0	0	100	0	0	0	0	0	0	0	0	100	0	0	200	200	200	200	200	200	100	200
AV	300	300	200	200	200	300	300	300	300	300	300	300	300	200	300	300	300	300	300	300	300	300	300	300	300	300
PK	900	1000	800	800	800	800	900	800	700	1000	1800	1800	800	900	800	900	900	900	900	900	1000	1100	1000	1000	1800	1800

CARBON MONOXIDE
(UG/M3)

CR-TRACT
TRAILER AB23
AUG 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
2	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
3	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
7	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
8	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
9	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
10	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
11	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
12	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
13	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
14	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300
15	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
16	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
17	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	()
18	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
19	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
22	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
23	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
24	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
25	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
26	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
27	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300
28	200	100	100	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	200	800	800	700	700	700	700	700	700	700	600	600	700	600	600	700	700	600	600	600	600	600	600	600	600	800
31	500	500	500	300	300	300	200	200	100	100	0	0	100	100	100	100	100	100	100	0	0	0	0	0	0	200
AV	200	200	200	200	200	200	200	200	200	200	200	200	200	200	100	200	200	200	200	200	200	200	200	200	200	200
PK	500	800	800	700	700	700	700	700	700	700	600	600	700	900	600	700	700	600	600	600	600	600	600	600	600	900

SULFUR DIOXIDE
(UG/M³)

CR-TRACT
TRAILER AR20
AUG 1991
OCCIDENTAL OIL SHALE INC.

DAY	HOUR (LOCAL STANDARD TIME)																								AVE PEAK	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	3	3	3	3	3	3	3	3	3	3	1
2	0	0	0	0	0	0	0	0	0	0	0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
5	0	0	0	0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
6	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
7	0	0	0	0	0	0	0	0	0	0	0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
8	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
9	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
10	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
11	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
12	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
13	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
14	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
15	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
16	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
17	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
18	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
19	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
20	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
21	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
22	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
23	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
24	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
25	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
26	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
27	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
28	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
29	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
30	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
31	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
AV	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
PK	8	8	8	8	8	8	8	8	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10

SULFUR DIOXIDE
(UG/M3)

CR-TRACT
TRAILER AR23
AUG 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK	
1	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()	
2	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()	
3	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()	
4	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()	
5	0	0	0	0	0	0	0	3	3	8	5	3	3	3	3	3	0	3	0	0	0	0	0	0	1	3	
6	3	3	3	5	3	3	3	5	8	5	5	3	5	5	8	3	3	3	3	3	3	3	3	3	2	8	
7	8	8	8	8	8	8	10	13	10	13	10	5	0	3	0	0	0	0	5	5	5	10	8	8	5	10	
8	5	3	3	3	3	3	3	3	3	3	3	3	5	5	5	5	5	5	5	3	5	5	5	5	5	13	
9	5	5	5	5	5	5	5	13	10	8	8	8	8	8	8	8	8	8	8	5	8	5	5	5	4	5	
10	5	5	5	8	5	5	8	8	8	8	10	10	8	8	8	8	8	8	8	5	8	5	5	5	7	13	
11	8	8	8	10	10	8	10	10	10	13	13	16	13	10	13	10	13	13	13	13	13	10	13	13	8	10	
12	13	13	13	10	13	13	13	13	13	13	13	16	16	16	16	16	16	16	16	16	16	13	16	16	11	16	
13	13	13	13	13	16	16	16	16	16	16	16	16	18	18	18	18	18	18	18	16	16	16	16	16	14	16	
14	18	18	16	18	18	18	18	18	21	8	3	3	3	3	3	3	5	5	5	5	5	3	5	5	9	21	
15	5	5	5	5	5	5	5	5	5	5	8	5	5	5	5	5	5	8	8	5	5	5	5	5	6	8	
16	5	5	8	8	5	8	5	5	5	8	8	8	10	8	8	8	8	8	8	8	8	8	8	8	7	10	
17	8	8	8	8	8	8	8	8	8	8	5	5	8	10	8	10	10	8	8	8	8	8	5	5	8	10	
18	8	8	8	8	8	8	8	10	13	16	10	10	10	10	10	10	10	10	8	8	8	8	8	8	9	16	
19	8	8	8	8	8	8	8	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
20	10	10	8	8	8	8	8	8	10	10	10	10	13	10	10	10	10	10	10	10	10	10	10	10	10	10	
21	10	10	10	8	8	8	8	10	10	10	10	10	8	5	3	5	5	5	3	5	3	5	3	3	3	7	10
22	3	5	3	3	3	5	3	3	5	3	3	5	5	5	5	5	5	5	5	5	5	5	5	5	4	8	
23	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
24	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
25	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
26	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
27	8	10	8	8	8	5	8	8	8	10	10	10	10	10	10	10	10	10	10	8	8	8	8	8	5	10	
28	8	8	8	8	8	8	8	8	10	10	13	13	13	13	10	10	10	10	10	8	8	10	10	10	9	10	
29	10	10	10	10	10	8	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
30	10	10	10	10	10	10	10	10	10	10	13	13	13	13	13	13	13	13	10	10	10	10	10	10	11	13	
31	10	10	10	10	10	10	10	10	10	0	3	3	3	3	5	3	0	0	0	0	0	0	0	0	0	5	10
AV	7	8	7	7	7	7	7	8	9	8	8	8	8	8	8	8	8	8	7	7	7	7	7	7	7	7	
PK	18	18	16	18	18	18	16	18	21	16	16	16	18	18	18	18	18	18	18	16	16	16	16	16	16	21	

HYDROGEN SULFIDE
(UG/M3)

CR-TRACT
TRAILER AR23
AUG 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
2	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
3	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
4	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	0	0	0	1	1	1	1	1	1	1	1
5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
15	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	0	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
18	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	0	0	1	0	0	1	1	1	1	1	1
19	1	1	1	1	1	1	1	1	1	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1
20	0	1	1	1	1	1	1	1	1	1	0	1	0	0	1	1	1	1	1	0	1	1	1	1	1	1
21	1	1	1	1	1	1	1	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	1	1	1	(PF)	(PF)	(PF)	1	1	1	1	1	1	1	1	1	1	1	1
25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1
AV	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
PK	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

PARTICULATE DATA
UG/M3

CR-TRACT
AUG 1981
OCCIDENTAL OIL SHALE, INC

DAY	AB20	STATION AB23	AD56
1	17.2	5.7	15.1
4	37.2	56.9	21.5
7	61.1	86.2	30.4
13	12.9	13.8	11.4
16	20.1	29.8	9.2
19	34.0	36.9	23.1
22	15.3	15.3	17.8
25	21.0	16.1	20.1
28	19.1	27.4	12.7
PK	61.1	86.2	30.4
AV	26.4	32.0	17.9
GM	23.4	24.2	16.8

WIND SPEED @10M
METERS/SEC

CR-TRACT
TRAILER AR20
AUG 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	2	2	1	0	1	2	2	2	3	3	3	3	3	1	2	1	3	2	2	3	2	1	1	2	2	3
2	1	2	1	2	1	2	4	3	1	0	1	1	(CM)	3	0	1	2	1	2	(CM)	1	2	2	1	2	4
3	0	1	2	1	2	1	1	2	2	1	3	3	3	3	3	3	3	3	2	0	0	1	1	2	2	3
4	2	(CM)	2	1	1	2	2	4	1	3	4	2	2	2	3	2	1	2	2	1	2	2	2	2	2	4
5	2	1	2	1	2	2	1	1	1	1	4	4	3	3	3	3	3	3	2	1	1	2	(CM)	2	2	4
6	1	2	2	1	2	2	0	0	1	2	2	3	3	2	3	2	2	2	2	1	1	2	0	0	2	4
7	2	2	3	2	2	2	0	(CM)	1	2	3	4	2	2	3	4	3	2	2	1	2	2	3	4	2	4
8	0	1	0	(CM)	1	0	0	2	4	4	2	3	3	3	4	2	2	2	2	1	0	1	1	4	2	4
9	0	1	1	0	2	2	1	1	1	1	3	0	0	1	1	1	1	2	2	1	0	0	0	0	1	4
10	0	1	1	0	1	2	1	1	1	1	1	0	0	1	1	1	1	2	1	1	0	0	0	0	1	4
11	2	1	1	1	2	0	2	3	2	4	4	2	2	2	2	2	0	2	2	1	0	1	1	0	1	4
12	0	1	1	1	1	0	1	1	1	1	1	2	2	3	2	5	2	2	1	1	1	1	3	1	1	4
13	2	1	2	1	2	0	2	3	2	4	4	2	1	2	3	2	1	2	4	1	1	1	2	2	1	5
14	1	1	1	1	1	2	1	1	1	1	0	3	3	2	(CM)	1	1	(CM)	(CM)	1	0	1	2	2	1	4
15	2	2	2	2	3	1	1	1	2	2	3	2	4	3	0	4	6	2	2	0	0	2	2	2	2	6
16	3	2	2	2	3	1	(CM)	(CM)	1	2	3	3	4	3	2	3	2	2	(CM)	3	1	1	2	3	2	4
17	1	1	1	0	1	2	2	2	0	2	2	2	4	2	1	2	2	2	2	1	1	1	1	1	2	4
18	2	2	1	1	1	1	1	1	1	1	2	3	1	1	4	3	1	2	1	1	1	0	2	2	2	4
19	2	2	1	2	2	1	3	3	1	0	0	(MT)	(MT)	2	(MT)	4	4	2	1	1	0	0	1	2	2	4
20	1	2	1	2	1	1	1	2	1	1	1	1	1	2	1	2	3	2	1	1	2	2	1	1	2	4
21	1	1	0	1	1	1	4	1	4	9	4	3	3	4	1	2	4	0	3	(CM)	3	1	1	1	1	8
22	1	1	2	1	2	1	3	1	2	1	0	1	1	1	0	2	4	0	2	2	3	1	1	1	2	4
23	2	4	4	2	1	1	1	3	2	0	(CM)	4	4	2	4	5	4	4	2	(CM)	1	1	0	2	2	5
24	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	3	3	4	3	3	2	2	(CM)	4	1	2	2	3	2	4
25	4	4	4	4	3	3	3	4	3	(CM)	2	2	3	4	3	3	2	2	2	4	0	1	1	1	2	4
26	2	2	2	1	1	1	(CM)	(CM)	0	1	2	3	3	2	3	3	2	4	4	4	0	1	2	2	2	4
27	0	0	2	0	0	1	2	2	2	1	1	2	2	2	2	3	2	4	3	2	2	2	2	1	2	4
28	2	2	4	3	3	2	2	3	1	3	3	1	2	5	4	1	1	1	1	1	1	1	1	1	2	4
29	2	4	4	3	3	2	2	2	2	5	5	4	4	5	2	4	2	2	4	3	3	3	3	2	3	4
30	4	3	1	6	4	2	2	2	4	5	5	4	4	5	3	3	7	4	3	4	4	3	4	4	7	4
31	3	2	3	1	3	3	4	3	1	2	3	3	2	4	4	4	1	1	1	1	0	1	2	1	2	4
AV	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	3	3	2	2	1	1	1	2	2	2	8
PK	4	4	4	6	4	3	4	4	4	8	5	4	4	5	4	5	5	7	4	4	4	3	4	4	4	8

WIND SPEED @ 30M
MFTERS/SEC

CR-TRACT
TRAILER AA23
AUG 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
2	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
3	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
4	5	2	1	0	0	2	1	6	7	5	6	5	5	6	6	4	5	6	5	4	4	3	3	3	4	6
5	2	2	1	3	3	0	2	1	1	1	3	3	4	4	5	4	2	4	4	4	3	2	3	(CM)	2	7
6	2	0	1	0	2	1	1	2	2	3	3	3	3	4	6	4	4	4	4	4	3	3	2	0	1	5
7	0	1	0	3	1	1	0	1	1	2	2	4	5	4	5	5	5	4	4	5	4	4	3	1	1	6
8	0	1	0	3	2	1	0	1	1	1	2	2	4	4	4	4	2	2	3	3	4	2	2	1	1	6
9	1	3	0	4	2	1	2	1	4	4	3	4	4	5	6	8	6	4	5	6	4	4	2	9	5	9
10	1	3	0	1	2	2	1	2	4	3	4	2	4	3	1	3	3	3	3	3	1	1	4	5	4	8
11	0	2	1	2	1	2	1	0	1	1	1	0	(CM)	2	1	1	2	1	1	1	1	1	1	1	1	4
12	1	0	0	0	1	2	1	0	1	1	1	2	2	3	4	3	2	(CA)	2	2	1	3	3	2	2	4
13	2	2	1	4	3	3	3	3	3	6	6	5	7	6	5	3	3	2	5	5	3	4	4	2	2	7
14	2	1	1	2	2	1	2	1	1	4	2	2	5	1	2	5	10	4	7	5	1	1	0	2	2	4
15	(CM)	2	1	1	2	0	0	1	0	2	3	2	5	4	5	4	3	7	5	4	3	(CM)	2	2	3	10
16	2	1	0	0	0	0	0	1	1	2	3	2	5	4	4	5	3	4	5	4	4	0	2	2	3	7
17	2	1	0	0	0	0	1	1	0	2	2	3	5	4	4	4	3	4	5	4	3	1	0	0	2	5
18	0	1	0	0	1	1	0	0	1	2	2	4	3	3	7	2	2	1	4	5	1	1	1	1	2	7
19	3	2	0	0	1	2	2	1	0	1	2	1	4	5	4	6	4	4	3	2	3	1	1	3	3	6
20	0	0	1	1	0	0	1	1	1	2	3	1	1	1	4	1	4	4	4	5	6	4	4	2	1	6
21	1	1	1	2	0	2	3	0	5	11	7	5	5	3	4	4	2	3	4	4	5	4	4	2	1	11
22	2	1	4	0	1	4	4	1	1	2	1	3	3	3	4	4	4	4	4	4	2	3	3	1	3	5
23	2	1	0	2	1	0	1	0	1	2	2	3	5	1	7	8	7	2	2	1	2	3	4	2	2	8
24	1	0	2	1	2	1	2	3	1	1	2	3	(PF)	4	5	4	3	2	3	3	4	3	2	2	3	7
25	3	1	3	3	3	1	2	2	1	1	2	3	4	4	2	4	6	1	8	7	4	3	4	4	3	5
26	(CM)	3	1	0	0	1	2	1	1	2	4	3	4	3	3	5	3	4	6	6	3	2	2	3	3	6
27	3	1	1	0	1	2	0	1	2	2	2	2	3	3	2	4	5	4	6	6	4	2	3	3	3	8
28	1	1	1	1	1	1	2	1	1	0	1	1	5	7	8	4	1	4	4	5	7	7	6	5	3	9
29	2	3	3	2	3	1	2	3	4	5	6	7	10	12	9	8	14	2	4	7	5	4	5	4	4	7
30	5	5	7	8	10	9	6	4	4	8	8	9	10	12	9	8	7	5	5	7	7	8	6	2	2	14
31	4	3	3	4	4	4	4	1	2	7	7	6	6	7	5	6	7	10	9	5	2	4	3	3	5	10
AV	2	2	2	2	2	2	2	2	2	3	3	3	4	4	5	4	4	4	4	4	3	3	3	3	2	3
PK	5	5	7	8	10	9	6	6	7	11	8	9	10	12	9	8	14	10	9	7	7	8	9	5	5	14

WIND SPEED @ 60M
METERS/SEC

CR-TRACT
TRAILER AA23
AUG 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
2	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
3	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
4	7	6	5	6	3	3	3	7	8	5	7	6	6	7	6	6	5	6	6	5	5	4	5	5	7	()
5	2	0	2	2	(CM)	0	0	1	1	1	3	4	4	4	6	4	5	5	5	7	3	3	4	2	1	5
6	2	2	4	4	4	4	3	1	2	3	3	4	4	4	6	4	3	5	4	4	3	3	0	0	1	3
7	1	1	0	2	3	2	2	2	2	2	4	4	5	5	6	6	5	5	6	6	6	4	4	2	1	4
8	1	0	1	4	0	(CM)	0	1	1	2	3	2	4	4	5	5	3	3	3	3	4	2	11	0	3	6
9	1	4	4	4	1	2	1	1	4	4	3	4	4	5	7	8	7	4	6	7	4	4	2	6	3	11
10	0	2	2	1	0	2	2	0	1	2	2	0	4	4	2	1	1	4	4	2	2	1	3	5	4	8
11	0	0	1	1	1	1	1	0	1	1	1	2	0	2	1	3	2	(CA)	2	2	1	1	3	4	2	4
12	3	3	4	5	4	3	3	4	4	7	7	5	8	6	6	3	3	3	5	2	3	4	4	4	2	4
13	3	2	2	1	2	1	2	2	4	4	2	4	3	2	2	6	3	3	0	1	1	1	0	0	(CM)	4
14	3	0	1	1	3	4	1	1	2	4	3	5	5	5	7	6	7	5	8	6	4	4	2	3	2	4
15	0	0	1	1	0	0	1	1	1	2	3	3	4	4	6	6	11	8	6	4	4	1	0	2	3	7
16	2	2	1	0	0	0	1	1	0	2	2	4	4	4	4	4	3	5	6	4	3	2	2	0	3	11
17	2	1	(CM)	0	0	0	1	1	1	2	2	4	4	4	4	4	2	5	6	6	3	2	0	0	2	6
18	1	1	1	0	1	0	0	1	1	0	3	4	4	3	8	2	2	1	6	6	2	3	0	1	2	8
19	3	3	2	1	1	1	2	1	1	2	2	2	5	5	4	6	4	4	3	3	3	3	1	2	2	4
20	0	0	1	1	1	0	1	1	1	12	4	2	2	2	5	2	4	5	6	7	8	7	4	1	3	8
21	3	3	2	1	1	1	2	2	2	2	7	5	5	8	8	1	2	4	4	5	6	5	3	1	4	12
22	1	4	1	3	1	4	4	0	1	2	1	3	3	4	4	8	4	4	5	7	7	1	1	1	3	7
23	2	1	2	1	2	2	2	2	1	2	2	4	8	2	8	3	2	2	2	2	2	4	4	4	3	8
24	3	3	3	2	2	2	2	3	1	1	3	3	(PF)	4	5	5	6	2	4	5	5	3	4	2	3	5
25	0	1	1	1	0	1	1	2	2	1	4	4	4	4	2	4	6	1	7	8	2	0	4	1	3	8
26	0	1	1	0	0	1	1	2	1	3	4	3	3	3	3	4	3	7	9	7	5	3	4	5	3	9
27	4	0	1	1	1	1	0	1	2	2	1	1	5	8	9	5	5	4	7	8	4	3	4	1	3	8
28	1	1	1	0	1	1	2	2	1	0	1	1	5	8	3	2	2	4	5	7	8	9	8	2	4	9
29	2	4	4	3	3	2	3	4	6	6	7	7	5	3	3	5	2	3	5	8	7	6	5	3	4	8
30	7	6	8	8	12	11	8	5	5	8	8	10	11	13	9	8	16	6	7	8	9	10	7	4	9	16
31	5	3	4	5	4	4	4	1	2	8	7	6	6	7	5	7	8	11	11	6	2	5	3	3	5	11
AV	2	2	2	2	2	2	2	2	2	3	4	4	4	5	5	5	5	4	5	5	4	4	3	3	3	16
PK	7	6	8	8	12	11	8	7	8	12	8	10	11	13	9	8	16	11	11	8	9	10	11	7	7	

WIND SPEED @10M

C-B TRACT
MRI AD42
August, 1981

Refer to pages II-465 through II-501

Mechanical Recordering Instrument was removed and replaced by an R.A. solar powered data acquisition system installed July 25, 1981. Monitoring of data and maintenance of the instrumentation was contracted to WestAq Corp. upon purchase of the equipment.

WIND SPEED @10M

C-B TRACT
MRI AD56
August, 1981

DATA NOT AVAILABLE AT REPORT TIME

WIND DIRECTION @10M
DEGREES

CR-TRACT
TRAILER A820
AUG 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	PREV
1	115	74	352	239	117	119	126	109	133	146	179	135	136	122	293	238	274	270	102	103	122	41	77	98	120
2	105	129	123	101	124	127	134	134	117	39	320	116	(CM)	303	277	201	279	215	210	(CM)	58	109	120	121	129
3	130	132	130	135	103	121	125	118	119	196	219	227	202	188	207	215	202	226	262	11	35	55	102	121	153
4	115	107	110	105	106	125	131	131	245	245	269	266	249	223	219	279	279	257	231	63	53	108	115	118	166
5	125	(CM)	109	114	117	105	129	140	129	265	287	203	175	270	254	255	201	260	266	52	111	114	117	118	157
6	111	114	104	109	103	107	112	131	305	274	278	286	321	349	325	340	333	4	2	35	87	117	(CM)	115	47
7	109	122	109	109	106	116	120	136	288	286	276	305	300	327	319	330	338	358	30	48	88	106	96	104	57
8	106	118	127	132	107	114	99	(CM)	350	312	283	281	288	309	310	328	14	330	24	81	119	332	28	98	31
9	304	325	27	107	118	117	(CM)	307	282	271	274	277	278	309	346	350	356	47	39	26	11	328	286	310	333
10	90	37	55	(CM)	113	107	17	328	281	283	274	339	304	290	63	107	84	120	135	94	68	51	45	45	50
11	58	101	129	127	130	138	127	(CM)	155	256	275	291	287	262	253	272	283	286	281	292	292	53	141	112	228
12	105	107	112	117	111	120	117	137	138	143	315	290	277	286	292	11	119	225	353	14	84	123	118	130	111
13	128	137	145	125	137	129	133	132	130	175	186	214	140	177	325	7	310	297	298	300	62	124	125	131	143
14	131	133	128	120	112	114	110	116	109	98	78	131	133	128	(CM)	280	316	(CM)	(CM)	32	68	99	117	111	109
15	111	117	112	115	125	118	115	133	129	163	127	104	272	289	151	113	118	104	(CM)	71	85	101	108	130	118
16	139	134	129	136	139	137	(CM)	(CM)	242	279	273	274	287	305	314	322	325	321	99	122	124	102	132	141	163
17	124	141	118	122	118	111	128	139	142	290	286	353	285	341	28	333	333	350	74	42	82	129	118	125	86
18	116	135	121	110	109	109	127	105	100	86	298	287	21	114	192	128	141	128	210	34	90	117	114	140	117
19	136	126	114	118	115	101	135	134	138	61	351	(MT)	(MT)	(MT)	(MT)	296	276	187	208	301	42	69	100	108	114
20	119	111	124	136	110	122	98	125	121	329	310	95	286	140	199	250	261	217	219	95	98	115	106	94	131
21	110	106	135	111	120	125	136	130	305	297	325	290	284	112	88	95	113	199	145	108	109	112	106	112	118
22	111	109	122	112	143	128	107	139	117	114	9	161	159	192	225	251	289	296	276	(CM)	110	111	110	113	135
23	137	143	143	134	114	114	127	129	131	112	(CM)	276	290	286	148	144	143	112	303	312	53	114	115	102	128
24	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	111	121	114	129	104	111	108	120	101	118	111	102	115	113
25	131	132	134	132	134	135	137	140	142	(CM)	295	299	301	276	283	297	7	37	(CM)	59	84	70	71	70	97
26	71	63	37	38	39	38	(CM)	(CM)	37	321	309	273	249	253	256	259	261	239	225	225	225	225	250	251	277
27	251	251	233	230	228	228	229	229	229	230	241	270	300	309	312	289	277	266	178	177	183	177	168	158	236
28	153	153	180	183	183	183	183	182	181	184	186	182	189	194	199	200	201	243	242	243	229	109	69	69	185
29	106	133	132	127	133	121	117	119	163	177	188	191	298	23	63	116	65	351	106	85	117	105	119	55	114
30	115	124	243	111	101	101	105	86	94	115	114	183	193	197	198	225	269	97	126	107	98	104	112	86	127
31	104	122	133	125	119	129	136	134	125	184	188	187	244	255	278	314	347	254	196	94	74	116	132	111	146
PV	116	119	121	124	120	121	124	131	143	224	275	245	262	262	265	280	299	265	205	60	89	101	109	110	124

CR-TRACT
TRAILER AA23
AUG 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	PREV
1	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()
2	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()
3	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()
4	209	211	200	194	(CM)	235	157	197	211	232	220	240	235	219	244	254	253	245	230	213	217	187	71	121	215
5	120	225	188	6	(CM)	205	105	76	3	357	333	245	184	211	261	269	217	231	228	234	229	214	(CM)	275	232
6	262	243	237	252	241	234	251	343	318	310	303	314	22	351	339	334	358	16	19	57	86	141	212	204	304
7	248	180	253	249	245	(CM)	253	302	302	307	329	333	324	333	338	334	340	15	43	55	58	117	203	224	306
8	173	202	185	144	274	102	(CM)	315	311	298	331	343	331	325	356	331	324	356	32	130	171	287	33	82	332
9	109	279	252	230	160	173	224	331	308	310	328	314	326	346	358	17	19	35	44	30	1	306	302	297	327
10	246	169	259	270	183	194	330	274	300	309	319	352	313	272	182	138	96	119	123	160	79	115	19	214	228
11	315	92	190	212	106	143	180	225	330	311	310	354	(CM)	226	209	165	8	333	298	277	222	196	114	133	228
12	147	210	225	218	224	235	321	(CM)	78	20	145	319	305	293	284	11	197	(CA)	145	215	159	175	171	127	209
13	159	160	211	215	176	185	183	171	201	205	210	218	191	208	221	346	11	317	314	332	138	149	150	131	193
14	166	114	128	126	129	69	111	97	208	214	343	80	93	54	323	323	318	235	(CM)	197	187	208	202	231	152
15	199	173	163	157	180	215	85	103	216	202	191	131	264	245	213	111	117	132	208	145	190	113	126	143	167
16	200	131	189	220	(CM)	(CM)	282	73	351	329	320	323	320	332	304	331	336	356	97	153	185	238	141	157	290
17	140	153	210	219	212	(CM)	107	80	32	11	0	330	343	341	26	36	8	0	52	69	133	207	180	225	52
18	143	207	235	220	230	130	228	341	315	356	342	333	348	208	213	176	68	153	222	221	120	251	98	177	213
19	184	167	112	105	113	131	124	87	251	66	302	324	13	51	342	294	294	199	235	237	210	233	40	161	168
20	165	164	184	211	225	169	77	69	9	309	330	31	266	266	254	230	242	249	226	219	219	205	27	201	227
21	344	128	97	79	75	96	89	55	328	314	335	319	271	170	175	50	115	235	250	173	169	164	206	213	138
22	213	223	169	281	136	171	146	262	103	249	238	209	206	229	241	222	277	294	259	224	217	107	147	135	211
23	145	148	130	117	171	95	(CM)	49	196	235	229	292	292	256	197	177	182	182	280	235	105	134	175	207	184
24	195	151	148	202	161	184	139	85	150	53	300	(PF)	(PF)	84	190	144	112	268	201	121	153	98	130	111	147
25	121	123	126	144	122	152	196	81	66	357	340	331	309	246	292	258	14	119	201	186	139	170	125	209	149
26	(CM)	289	157	(CM)	163	177	253	313	317	346	342	338	343	345	333	310	336	73	122	148	138	88	116	121	1
27	185	288	141	209	227	208	121	114	40	349	17	5	12	10	53	187	206	183	207	199	183	97	145	217	169
28	121	202	239	128	212	163	170	72	90	346	228	325	207	209	214	248	256	226	218	213	213	215	211	90	204
29	128	151	119	90	112	103	174	188	207	215	217	219	233	14	51	252	346	355	168	184	178	161	118	75	156
30	144	129	244	144	159	166	156	148	157	157	188	212	219	213	220	222	254	137	141	182	155	163	146	112	172
31	144	116	126	125	134	118	119	103	223	208	216	207	217	238	270	300	249	234	219	201	76	167	123	118	176
32	170	176	183	185	175	163	160	74	303	308	298	312	292	271	266	271	310	250	209	190	165	173	142	168	201

WIND DIRECTION @ 30M
DEGREES

CB-TRACT
TRAILER AA23
AUG 1981
OCCIDENTAL OIL SHIP INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	PREV
1	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()
2	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()
3	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()
4	198	193	191	192	180	205	182	188	204	224	212	232	229	214	239	245	248	241	225	208	208	200	200	107	199
5	73	212	250	(CM)	73	180	(CM)	76	2	352	329	236	179	206	257	263	214	227	224	243	234	215	45	310	209
6	305	270	259	270	260	250	251	332	313	306	299	310	15	346	333	329	352	8	12	51	70	107	145	151	319
7	302	103	307	266	264	238	261	294	298	303	321	328	320	326	332	331	336	11	37	48	50	86	103	227	323
8	202	16	37	125	262	84	84	311	305	298	325	338	326	319	347	326	320	351	27	106	145	274	28	75	352
9	82	281	257	231	137	99	226	327	302	305	318	309	320	338	351	10	14	29	39	24	359	307	300	294	330
10	246	151	304	7	149	163	332	277	298	305	315	346	308	268	173	127	86	111	118	146	97	70	84	163	129
11	15	82	144	212	79	122	144	180	325	307	310	6	(CM)	217	194	148	10	340	300	280	232	204	104	115	179
12	122	148	180	186	209	224	0	63	69	27	138	315	303	286	277	4	186	(CA)	125	202	115	152	146	125	154
13	152	155	202	200	160	151	162	159	191	199	205	211	183	200	214	341	8	313	308	322	119	147	141	139	182
14	177	135	150	121	126	37	100	94	197	204	339	71	86	50	316	317	313	233	153	174	162	200	(CM)	339	134
15	(CM)	98	126	137	151	195	96	117	207	197	183	121	256	235	208	102	107	123	198	129	180	99	115	121	148
16	150	138	172	(CM)	(CM)	39	333	76	356	327	313	315	314	328	299	325	331	349	90	140	147	(CM)	121	137	10
17	119	126	221	239	225	353	92	70	29	11	355	325	336	336	21	30	2	353	46	59	113	138	221	270	22
18	145	101	156	233	356	34	97	0	311	348	336	329	343	203	205	167	60	145	215	209	168	201	76	149	150
19	168	175	167	94	104	117	120	105	234	48	293	322	7	45	337	288	287	190	232	248	204	211	28	139	173
20	151	90	143	196	196	66	96	73	2	305	323	14	253	257	246	223	237	242	222	215	208	197	196	194	210
21	225	148	135	(CM)	55	95	99	180	320	309	329	312	265	165	166	45	111	233	207	158	158	149	178	188	168
22	208	228	192	286	117	164	143	240	94	246	231	202	199	223	237	216	174	290	254	219	214	111	138	117	207
23	120	135	150	122	214	107	195	56	186	227	224	284	287	251	189	169	174	179	274	226	79	117	146	146	177
24	186	169	144	170	150	168	139	84	139	50	286	(PF)	(PF)	75	184	136	103	262	206	114	147	98	120	115	141
25	110	117	117	139	121	135	170	86	63	356	332	324	305	241	287	255	6	120	192	180	174	113	91	162	131
26	(CM)	332	126	289	48	105	262	294	310	343	337	333	338	339	328	304	326	68	116	141	139	93	95	106	6
27	155	254	132	261	238	199	90	104	35	345	14	1	8	6	49	180	200	178	203	192	184	100	127	223	160
28	98	152	241	82	193	153	135	86	84	348	230	327	199	201	207	243	253	216	208	204	205	207	208	81	189
29	118	150	139	102	113	122	171	183	201	210	211	213	225	8	47	247	343	349	153	168	161	158	115	66	154
30	128	123	240	128	149	156	149	140	147	148	181	204	212	208	215	217	251	128	128	172	144	152	139	109	163
31	137	113	132	117	122	107	106	96	210	202	209	200	210	234	265	296	244	229	214	195	73	154	123	135	169
PV	150	144	173	180	153	135	135	95	302	306	292	308	286	265	259	267	307	246	197	181	157	153	125	142	169

WIND DIRECTION @ 60M
DEGREES

CR-TRACT
TRAILER AA23
AUG 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	PREV
1	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()
2	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()
3	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()
4	220	214	210	209	208	268	268	268	268	268	268	268	268	268	268	268	268	268	268	268	268	268	268	268	220
5	51	321	280	289	288	283	273	324	319	315	311	323	25	345	343	341	0	20	24	65	77	104	125	140	266
6	347	316	289	295	288	283	273	300	308	313	332	338	330	335	341	341	346	22	50	61	62	81	96	250	341
7	294	105	45	290	280	269	273	300	308	313	332	338	330	335	341	341	346	22	50	61	62	81	96	250	340
8	235	175	57	129	276	(CM)	338	314	311	316	336	347	339	329	355	336	330	359	38	108	149	268	41	83	345
9	84	301	279	256	144	91	247	335	313	316	327	320	329	346	0	22	25	42	53	39	14	323	314	308	343
10	266	154	0	18	131	162	343	297	303	314	325	354	321	282	191	141	102	127	138	158	126	80	94	121	99
11	39	93	126	208	90	121	131	135	330	319	321	19	225	220	202	146	24	351	309	293	276	255	112	127	126
12	139	153	139	135	180	240	32	104	90	45	144	326	317	297	289	15	204	24	351	309	293	276	255	112	127
13	174	177	208	205	176	158	187	183	200	207	213	342	80	93	52	324	328	320	240	188	176	173	218	176	(CM)
14	200	179	193	159	163	326	102	114	204	213	342	80	93	52	324	328	320	240	188	176	173	218	176	(CM)	181
15	90	90	123	135	158	201	137	175	217	205	191	134	265	247	223	116	119	137	205	150	207	129	104	128	159
16	156	156	178	79	341	39	331	100	14	339	322	325	324	338	310	336	341	359	101	146	148	125	133	155	33
17	135	123	(CM)	153	261	0	80	80	51	28	3	335	343	348	32	39	10	2	58	65	111	134	231	306	40
18	253	98	155	151	358	347	59	(CM)	305	355	345	339	354	212	214	179	70	158	228	230	207	220	236	141	223
19	185	207	195	230	187	158	151	176	243	45	302	323	17	57	346	299	297	198	238	268	223	228	14	143	230
20	241	286	135	215	216	51	86	70	9	312	330	13	260	264	254	232	243	248	231	230	226	219	210	210	246
21	211	192	199	202	212	169	178	222	327	320	339	320	275	180	179	43	125	241	226	161	170	159	172	178	201
22	229	251	246	298	157	181	163	228	111	254	245	212	211	230	246	225	282	298	265	236	233	157	177	132	223
23	130	155	189	212	221	210	207	157	194	234	234	292	298	262	199	180	184	195	271	238	85	117	143	171	199
24	207	218	145	175	161	178	141	109	158	61	293	(PF)	(PF)	91	195	152	115	264	223	135	161	125	143	150	160
25	129	136	139	151	114	137	152	127	78	7	343	333	318	256	297	264	17	130	201	192	214	158	82	136	143
26	120	4	208	281	286	94	278	281	318	351	347	343	348	345	338	313	333	80	128	153	159	114	108	107	355
27	147	197	124	333	266	217	275	112	43	353	24	11	17	15	62	188	208	190	212	205	199	123	130	243	177
28	132	134	243	157	202	187	139	116	105	4	247	335	205	210	215	253	262	227	224	225	223	221	220	106	202
29	154	174	172	143	142	157	188	195	209	219	218	220	233	12	58	255	355	359	160	171	169	171	144	76	175
30	136	140	250	135	159	169	165	156	158	162	191	212	220	217	223	225	259	146	135	183	159	164	155	131	175
31	156	138	162	138	140	140	129	123	214	209	214	209	218	241	272	302	253	237	223	207	87	166	150	163	185
PV	167	166	182	189	190	165	159	146	294	317	302	317	292	274	268	277	314	249	209	193	173	169	150	146	193

WIND DIRECTION @10M

C-B TRACT
MRI AD42
August, 1981

Refer to pages II-465 through II-501

Mechanical Recordering Instrument was removed and replaced by an R.A. solar powered data acquisition system installed July 25, 1981. Monitoring of data and maintenance of the instrumentation was contracted to WestAq Corp. upon purchase of the equipment.

WIND DIRECTION @10M

C-B TRACT
MRI AD56
August, 1981

DATA NOT AVAILABLE AT REPORT TIME

WIND DIRECTION AND
VECTOR AVERAGE VELOCITY (DEG & MPS)
10 METER LEVEL

CR-TRACT
TRAILER AR20
AUG 1981
OCCIDENTAL OIL SHALE, INC.

DAY	HOUR (LOCAL STANDARD TIME)																VECTOR									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DIR	VEL
1	115	74	352	239	117	119	126	109	133	146	139	135	136	122	293	238	274	270	102	103	122	41	77	98	124	1.2
2	105	129	123	101	124	127	134	134	117	39	320	116	***	303	277	201	279	215	210	***	58	109	120	121	133	0.8
3	130	132	130	135	103	121	125	118	119	196	219	227	202	188	207	215	202	226	262	11	35	55	102	121	176	1.1
4	115	107	110	105	106	125	131	131	245	245	269	266	249	223	219	279	279	257	231	63	53	108	115	118	201	0.7
5	125	***	109	114	117	105	129	140	129	265	287	203	175	270	254	255	201	260	266	52	111	114	117	118	153	0.8
6	111	114	104	109	103	107	112	131	305	274	278	286	321	349	325	340	333	4	2	35	87	117	***	115	345	0.6
7	109	122	109	109	106	116	120	136	288	286	276	305	300	327	319	330	338	358	30	48	88	106	96	104	354	0.5
8	104	118	127	132	107	114	99	***	350	312	283	281	288	309	310	328	14	330	24	81	119	332	28	98	23	0.5
9	304	325	27	107	118	117	***	307	282	271	274	277	278	309	346	350	356	47	39	26	11	328	286	310	317	1.3
10	90	37	55	***	113	107	17	328	281	283	274	339	304	290	63	107	84	120	135	94	68	51	45	45	1	0.3
11	58	101	129	127	130	138	127	***	155	256	275	291	287	262	253	272	293	286	281	292	292	53	141	112	194	0.2
12	105	107	112	117	111	120	117	137	138	143	315	290	277	286	292	11	119	225	353	14	84	123	118	130	80	0.2
13	128	137	145	125	137	129	133	132	130	175	186	214	140	177	325	7	310	297	298	300	62	124	125	131	155	0.8
14	131	133	128	120	112	114	110	116	109	98	78	131	133	128	***	280	316	***	***	32	68	99	117	111	116	1.0
15	111	117	112	115	125	118	115	133	129	163	127	104	272	289	151	113	118	104	***	71	85	101	108	130	121	1.4
16	139	134	129	136	139	137	***	***	242	279	273	274	287	305	314	322	325	321	99	122	124	102	132	141	250	0.2
17	124	141	118	122	118	111	128	139	142	290	286	353	285	341	28	333	333	350	74	42	82	129	118	125	52	0.3
18	116	135	121	110	109	109	127	105	100	86	298	287	21	114	192	128	141	128	210	34	90	117	114	140	127	1.0
19	136	126	114	118	115	101	135	134	138	61	351	***	***	***	***	296	276	187	208	301	42	69	100	108	138	0.7
20	119	111	124	136	110	122	98	125	121	329	310	95	286	140	199	250	261	217	219	95	98	115	106	94	145	0.6
21	110	106	135	111	120	125	136	130	305	297	325	290	284	112	88	95	113	199	145	108	109	112	106	112	107	0.4
22	111	109	122	112	143	128	107	139	117	114	9	161	159	192	225	251	289	296	276	***	110	111	110	113	139	0.7
23	137	143	143	134	114	114	127	129	131	112	***	276	290	286	148	144	143	112	303	312	53	114	115	102	143	1.1
24	***	***	***	***	***	***	***	***	***	***	***	111	121	114	129	104	111	104	120	101	118	111	102	115	111	2.9
25	131	132	134	132	134	136	137	140	142	***	295	299	301	276	283	297	7	37	***	59	84	70	71	70	131	0.8
26	71	63	37	38	39	38	***	***	37	321	309	273	249	253	256	259	261	239	225	225	225	225	250	251	261	1.1
27	251	251	233	230	228	228	229	229	229	230	241	270	300	309	312	289	277	265	178	177	183	177	168	158	242	1.2
28	153	153	180	183	183	183	183	182	181	184	186	182	189	194	199	200	201	243	242	243	229	109	69	69	184	1.4
29	106	133	132	127	131	121	117	119	163	177	188	191	298	23	63	116	65	351	106	85	117	105	119	55	118	1.8
30	115	124	243	111	101	101	105	86	94	115	114	183	193	197	198	225	269	97	126	107	98	104	112	86	128	2.4
31	104	122	133	125	119	129	136	134	125	184	188	187	244	255	278	314	347	254	196	94	74	116	132	111	157	1.0
VO	117	121	126	122	119	121	129	133	154	238	257	245	261	258	265	296	293	275	192	85	99	104	112	113	140	
VV	1.6	1.6	1.4	1.5	1.5	1.5	1.7	1.7	0.6	0.8	1.1	1.1	1.3	0.8	0.9	0.5	0.8	0.5	0.3	0.8	1.0	1.1	1.2	1.4		0.5

TOTAL NUMBER OF OBSERVATIONS = 709

NOTE: *** = MISSING DATA

WIND DIRECTION AND
VECTOR AVERAGE VELOCITY (DFG & MPS)
10 METER LEVEL

CR-TRACT
TRAILER AA23
AUG 1981
OCCIDENTAL OIL SHALE, INC.

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	VECTOR DIR VEL
1	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
2	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
3	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
4	208	211	200	194	***	235	157	197	211	232	220	240	235	219	244	254	253	245	230	213	216	202	215	214	***
5	120	225	188	6	***	205	105	76	3	357	333	245	184	211	261	269	358	16	19	57	86	141	212	204	224
6	262	243	237	252	241	234	251	343	318	310	303	314	22	351	339	334	340	15	43	55	58	117	203	224	340
7	248	180	253	249	245	***	253	302	302	307	329	333	324	333	338	334	324	356	32	130	171	287	33	82	357
8	173	292	185	144	274	102	***	315	311	298	331	343	331	325	356	331	324	356	35	44	30	1	306	302	297
9	109	279	252	230	160	173	224	331	308	310	328	314	326	346	358	17	19	35	44	30	1	306	302	297	340
10	246	169	259	270	183	194	330	274	300	309	319	352	313	272	182	138	96	119	123	160	79	115	19	214	239
11	315	92	190	212	106	143	180	225	330	311	310	354	***	226	209	165	8	333	298	277	222	196	114	133	215
12	147	210	225	218	224	235	321	***	78	20	145	319	305	293	284	11	197	***	145	215	159	175	171	127	226
13	159	160	211	215	176	185	183	171	201	205	210	218	191	208	221	346	11	317	314	332	138	149	150	131	200
14	166	114	128	126	129	69	111	97	208	214	343	80	93	54	323	323	318	235	***	197	187	208	202	231	138
15	199	173	163	157	180	215	85	103	216	202	191	131	264	245	213	111	117	132	208	145	190	113	126	143	167
16	200	131	189	220	***	***	282	73	351	329	320	323	320	332	304	331	336	356	97	153	185	238	141	157	333
17	140	153	210	219	212	***	107	80	32	11	0	330	343	341	26	36	8	0	52	69	133	207	180	225	24
18	143	207	235	220	230	130	228	341	315	356	342	333	348	208	213	176	68	153	222	221	120	251	98	177	225
19	184	167	112	105	113	131	124	87	251	66	302	324	13	51	342	294	294	199	235	237	210	233	40	161	265
20	165	164	184	211	225	169	77	69	9	309	330	31	266	266	254	230	242	249	226	219	219	205	27	201	237
21	344	128	97	79	75	96	89	55	328	314	335	319	271	170	175	50	115	235	210	173	169	164	206	213	227
22	213	223	169	281	136	171	146	262	103	249	238	209	206	229	241	222	277	294	259	224	217	107	147	135	221
23	145	148	130	117	171	95	***	49	196	235	229	292	292	256	197	177	182	182	280	235	105	134	175	207	188
24	195	151	148	202	161	184	139	85	150	53	300	***	***	84	190	144	112	268	209	121	153	98	130	111	141
25	121	123	126	144	122	152	196	81	66	357	340	331	309	246	292	258	14	119	201	186	139	170	125	209	175
26	***	289	157	***	163	177	253	313	317	346	342	338	343	345	333	310	336	73	122	148	138	88	116	121	43
27	185	288	141	209	227	208	121	114	40	349	17	5	12	10	53	187	206	183	207	199	183	97	145	217	185
28	121	202	239	128	212	163	170	72	90	346	228	325	207	209	214	248	256	226	218	213	213	215	211	80	212
29	118	151	119	90	112	103	174	188	207	215	217	219	233	14	51	252	346	355	168	184	178	161	118	75	183
30	144	129	244	144	159	166	156	148	157	157	188	212	219	213	220	222	254	137	141	182	155	163	146	112	184
31	144	116	126	125	134	118	119	103	223	208	216	207	217	238	270	300	249	234	219	201	76	167	123	138	204
VN	164	171	189	174	164	163	155	128	264	267	277	281	274	253	260	270	292	258	199	185	173	173	137	155	214
VV	0.9	0.8	0.8	0.8	1.1	1.0	0.7	0.4	0.4	1.0	1.2	1.2	1.5	1.3	1.6	1.1	1.0	0.5	1.0	1.6	1.3	1.2	0.9	0.9	0.6

TOTAL NUMBER OF OBSERVATIONS = 666

NOTE: *** = MISSING DATA

WIND DIRECTION AND
VECTOR AVERAGE VELOCITY (DEG & MPS)
30 METER LEVEL

CR-TRACT
TRAILER AA23
AUG 1991
OCCIDENTAL OIL SHALE, INC.

DAY	HOUR (LOCAL STANDARD TIME)																								VECTOR		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DIR	VEL	
1	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
2	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
3	***	***	***	***	***	***	***	***	***	***	***	***	***	208	231	198	219	225	248	233	217	204	197	199	***	***	***
4	198	193	191	192	180	205	182	188	204	224	212	232	229	214	239	245	248	241	225	208	208	200	***	107	214	4.0	
5	73	212	250	***	73	180	***	76	2	352	329	236	179	206	257	263	214	227	224	243	238	215	45	310	236	1.5	
6	305	270	259	270	260	250	251	332	313	306	299	310	15	346	333	329	352	8	12	51	70	107	145	151	336	1.6	
7	302	103	307	266	264	238	261	294	298	303	321	328	320	326	332	331	336	11	37	48	50	86	103	227	343	1.6	
8	202	16	37	125	262	84	84	311	305	298	325	338	326	319	347	326	320	351	27	106	145	274	28	75	4	1.3	
9	82	281	257	231	137	99	226	327	302	305	318	309	320	338	351	10	14	29	39	24	359	307	300	294	337	2.5	
10	246	151	304	7	149	163	332	277	298	305	315	346	308	268	173	127	86	111	118	146	97	70	84	163	155	0.1	
11	15	82	144	212	79	122	144	180	325	307	310	6	***	217	194	148	10	340	300	280	232	204	104	115	147	0.3	
12	122	148	180	186	209	224	0	63	69	27	138	315	303	286	277	4	186	***	125	202	115	152	146	125	195	0.3	
13	152	155	202	200	160	151	162	169	191	199	205	211	183	200	214	341	8	313	308	322	119	147	141	139	190	2.4	
14	177	135	150	121	126	37	100	94	197	204	339	71	86	50	316	317	313	233	153	174	162	200	***	339	123	0.4	
15	***	98	126	137	151	195	96	117	207	197	183	121	256	235	208	102	107	123	198	129	180	99	115	121	157	1.6	
16	150	138	172	***	***	39	333	76	356	327	313	315	314	328	299	325	331	349	90	140	147	***	121	137	341	1.1	
17	119	126	221	239	225	353	92	70	29	11	355	325	336	336	21	30	2	353	46	59	113	138	221	270	24	1.3	
18	145	101	156	233	356	34	97	0	311	348	336	329	343	203	205	167	60	145	215	209	168	201	76	149	214	0.6	
19	168	175	167	94	104	117	120	105	234	48	293	322	7	45	337	288	287	190	232	248	204	211	28	139	256	0.3	
20	151	90	143	196	196	66	96	73	2	305	323	14	253	257	246	223	237	242	222	215	208	197	196	194	225	1.6	
21	225	148	135	***	55	95	99	180	320	309	329	312	265	165	166	45	111	233	207	158	158	149	178	188	217	0.8	
22	208	228	192	286	117	164	143	240	94	246	231	202	199	223	237	216	273	290	254	219	214	111	138	117	218	1.9	
23	120	135	150	122	214	107	195	56	186	227	224	284	287	251	189	169	174	179	274	226	79	117	146	166	184	1.7	
24	186	169	144	170	150	168	139	84	139	50	286	***	***	75	184	136	103	262	206	114	147	98	120	115	135	1.7	
25	110	117	117	139	121	135	170	86	63	356	332	324	305	241	287	255	6	120	192	180	174	113	91	162	151	0.6	
26	***	332	126	289	48	105	262	294	310	343	337	333	338	339	328	304	326	68	116	141	139	93	95	106	51	0.8	
27	155	254	132	261	238	199	90	104	35	345	14	1	9	6	49	180	200	178	203	192	184	100	127	223	172	0.9	
28	98	152	241	82	193	153	135	86	84	348	230	327	199	201	207	243	253	216	208	204	205	207	208	81	202	2.4	
29	118	150	139	102	113	122	171	183	201	210	211	213	225	8	47	247	343	349	153	168	161	158	115	66	171	2.1	
30	128	123	240	128	149	156	149	140	147	148	181	204	212	208	215	217	251	128	128	172	144	152	139	109	173	5.7	
31	137	113	132	117	122	107	106	96	210	202	209	200	210	234	265	296	244	229	214	195	73	154	123	135	195	2.9	
VD	147	151	184	167	151	150	141	136	250	262	271	275	268	244	252	265	287	250	191	174	163	160	124	132	200		
VV	1.3	1.1	1.0	1.1	1.2	1.3	1.1	0.6	0.5	1.3	1.5	1.5	2.0	1.8	2.2	1.4	1.3	0.7	1.3	2.3	2.1	1.8	1.6	1.4		0.8	

TOTAL NUMBER OF OBSERVATIONS = 669

NOTE: *** = MISSING DATA

WIND DIRECTION AND
VECTOR AVERAGE VELOCITY (DEG & MPS)
60 METER LEVEL

CR-TRACT
TRAILER AA23
AUG 1981
OCCIDENTAL OIL SHALE, INC.

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	VECTOR DIR VEL	
1	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	
2	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	
3	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	
4	220	214	210	209	192	199	199	198	212	234	220	241	236	223	245	254	256	233	254	249	240	222	217	221	224 5.0	
5	51	321	280	268	**	109	76	88	11	7	338	241	191	216	264	271	226	236	232	263	266	248	169	30	253 1.6	
6	347	316	289	295	288	283	273	324	319	315	311	323	25	355	343	341	0	20	24	65	77	104	125	140	352 2.1	
7	294	105	45	290	280	269	273	300	308	313	332	338	330	335	341	341	346	22	50	61	62	81	96	250	357 2.2	
8	235	175	57	129	276	**	338	314	311	316	336	347	339	329	355	336	330	359	38	108	149	268	41	83	15 1.5	
9	88	301	279	256	144	91	247	335	313	316	327	320	329	346	0	22	25	42	53	39	14	323	314	308	348 2.9	
10	266	154	0	18	131	162	343	297	303	314	325	354	321	282	191	141	102	127	138	158	126	80	94	121	115 0.3	
11	39	93	126	208	90	121	131	135	330	310	321	19	225	220	202	146	24	351	309	293	276	255	112	127	128 0.3	
12	139	153	139	135	180	240	32	104	90	45	144	326	317	297	289	15	204	**	134	201	100	146	152	151	172 0.3	
13	174	177	208	205	176	158	187	183	200	207	213	219	192	207	223	352	20	325	316	320	129	162	152	171	201 2.8	
14	200	179	193	159	163	326	102	114	204	213	342	80	93	52	324	328	320	240	188	176	173	218	176	**	166 0.4	
15	90	90	123	135	158	201	137	175	217	205	191	134	265	247	223	116	119	137	205	150	207	129	104	128	172 1.8	
16	156	156	178	79	341	39	331	100	14	339	322	325	324	338	310	336	341	359	101	146	148	125	133	155	357 1.0	
17	135	123	**	153	261	0	80	80	51	28	3	335	343	348	32	39	10	2	58	65	111	134	231	306	34 1.6	
18	253	98	155	151	354	347	59	**	305	355	345	339	354	212	214	179	70	158	228	230	207	220	236	141	234 0.9	
19	185	207	195	230	187	158	151	176	243	45	302	323	17	57	346	299	297	198	238	268	223	228	14	143	257 0.7	
20	241	286	135	215	216	51	86	70	9	312	330	13	260	264	254	232	243	248	231	230	226	219	210	210	237 2.3	
21	211	192	199	202	212	169	178	222	327	320	339	320	275	180	179	43	125	241	226	161	170	159	172	178	224 1.5	
22	229	251	246	298	157	181	163	228	111	254	245	212	211	230	246	225	282	298	265	236	233	157	177	132	235 2.4	
23	130	155	189	212	221	210	207	157	194	234	234	292	298	262	199	180	184	195	271	238	85	117	143	171	197 2.2	
24	207	218	145	175	161	178	161	109	158	61	293	**	**	91	195	152	115	264	223	135	161	125	143	150	157 2.0	
25	129	136	139	151	114	137	152	127	78	7	343	333	318	256	297	264	17	130	201	192	214	158	82	136	175 0.5	
26	120	4	208	281	286	94	278	281	318	351	347	343	348	345	338	313	333	80	128	153	159	116	108	107	64 0.8	
27	147	197	124	333	266	217	275	112	43	353	24	11	17	15	62	188	208	190	212	205	199	123	130	243	182 1.1	
28	132	134	243	157	202	187	139	116	105	4	247	335	205	210	215	253	262	227	224	225	223	221	220	106	216 2.9	
29	154	174	172	143	142	157	188	195	209	219	218	220	233	12	58	255	355	359	160	171	169	171	144	76	184 2.7	
30	136	140	250	135	159	169	165	156	158	162	191	212	220	217	223	225	259	146	135	183	159	164	155	131	184 6.7	
31	156	138	162	138	140	140	129	123	214	209	214	209	218	241	272	302	253	237	223	207	87	166	150	163	205 3.7	
VD	168	174	206	188	175	175	172	170	251	269	283	287	279	254	258	272	292	253	201	189	179	176	144	147	213	
VV	1.4	1.3	1.4	1.1	1.4	1.5	1.1	0.9	0.6	1.4	1.6	1.6	2.0	2.0	2.5	1.6	1.4	0.7	1.7	2.6	2.4	2.2	1.8	1.6		1.1

TOTAL NUMBER OF OBSERVATIONS = 675

NOTE: *** = MISSING DATA

SIGMA HORIZ. WIND DIR. @10M
DEGREES

CB-TRACT
TRAILER AR20
AUG 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	7	16	14	12	3	2	3	4	16	15	17	15	21	29	10	18	11	13	17	12	4	10	3	1	11	29
2	4	7	9	7	9	12	7	6	3	8	20	18	(CM)	20	18	18	8	9	12	(CM)	2	5	6	6	10	20
3	6	7	7	6	6	6	5	4	8	20	23	23	22	23	25	23	19	15	11	8	2	3	10	6	12	25
4	5	9	8	5	6	6	7	7	20	21	20	19	26	29	24	23	18	13	12	7	2	8	6	6	13	29
5	14	(CM)	5	6	9	7	8	5	8	3	5	26	22	28	19	21	20	17	6	5	6	8	9	9	12	28
6	3	2	4	5	4	6	7	3	20	10	10	17	32	29	28	31	25	18	9	1	7	3	(CM)	2	12	32
7	4	5	4	1	3	6	5	2	12	12	11	25	25	28	28	29	24	24	19	6	12	10	13	3	13	29
8	8	10	7	8	5	7	4	(CM)	3	6	13	16	29	30	27	20	25	12	2	5	3	17	32	14	13	32
9	12	10	7	4	3	3	3	10	10	13	14	13	17	30	20	24	21	25	14	9	1	9	14	10	13	30
10	16	6	1	(CM)	7	9	1	5	7	7	8	9	9	6	5	3	2	1	0	1	1	1	0	0	5	15
11	1	3	2	0	1	4	2	(CM)	4	1	1	0	0	4	1	0	0	1	1	0	4	6	3	2	2	6
12	0	0	1	0	11	0	1	2	0	1	11	7	8	9	18	12	14	18	0	1	5	4	8	4	6	18
13	4	4	5	2	6	2	6	6	6	17	19	19	6	29	15	13	4	3	7	2	5	1	1	0	8	29
14	0	2	0	2	1	2	2	1	1	4	17	9	6	2	(CM)	10	11	(CM)	(CM)	2	2	2	3	3	4	17
15	3	4	3	2	1	4	5	2	3	11	14	13	13	6	12	7	7	4	9	3	2	1	2	2	5	14
16	4	3	3	4	4	1	(CM)	(CM)	4	6	11	12	17	26	25	19	12	11	9	2	2	3	4	3	8	26
17	6	4	3	4	3	4	5	3	7	6	10	23	17	32	23	32	19	15	5	1	1	3	4	4	10	32
18	7	7	5	5	5	5	5	0	0	1	12	18	29	23	19	10	5	7	10	6	3	7	8	5	8	29
19	7	8	8	7	6	5	5	4	1	7	8	(MT)	(MT)	(MT)	(MT)	15	11	24	3	5	1	1	3	5	7	24
20	7	6	5	6	3	5	2	3	0	14	8	9	13	10	14	21	16	11	9	9	3	7	4	5	8	21
21	7	8	7	8	5	7	7	14	9	12	21	8	9	10	6	2	2	11	13	4	4	0	1	3	7	21
22	2	1	4	1	3	8	11	4	4	1	20	22	25	16	17	13	10	6	(CM)	7	6	4	4	7	9	25
23	8	6	5	10	6	7	6	5	1	16	(CM)	17	24	12	20	14	11	9	7	4	5	5	5	6	9	24
24	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	16	8	9	15	9	8	2	2	8	4	3	5	6	7	16
25	7	3	3	3	5	4	4	4	3	(CM)	13	15	13	18	16	17	27	7	(CM)	2	9	0	0	0	8	27
26	0	1	0	0	0	0	(CM)	(CM)	0	3	9	6	1	1	1	1	0	8	0	0	2	3	2	0	2	9
27	0	0	1	0	0	0	0	0	0	1	1	3	2	3	3	1	0	3	0	0	0	0	0	1	1	3
28	0	0	1	0	0	0	0	0	0	0	0	1	2	9	12	7	3	2	2	3	5	3	0	0	2	12
29	4	3	3	5	4	2	1	1	11	17	17	19	17	7	6	8	16	17	11	9	12	8	9	13	9	19
30	12	7	16	9	9	7	4	5	7	9	10	21	18	21	21	22	17	12	14	11	10	8	9	11	12	22
31	10	7	5	7	6	6	4	4	0	18	22	21	19	19	15	10	19	8	24	14	10	10	9	11	12	24
AV	6	5	5	4	5	5	4	4	6	9	13	15	16	17	16	15	12	11	8	5	4	5	6	5	8	
PK	16	16	16	12	11	12	11	14	20	21	23	26	32	32	28	32	27	25	24	14	12	17	32	14		32

SIGMA HORIZ. WIND DIR. @ 10M
DEGREES

CR-TRACT
TRAILER AA23
AUG 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
2	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
3	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
4	10	29	25	18	23	(CM)	25	23	11	19	17	19	20	23	19	17	18	17	14	9	6	4	43	28	18	43
5	15	9	13	7	5	4	10	29	22	33	25	33	23	23	19	21	21	18	17	9	6	5	30	21	7	30
6	11	7	5	7	7	(CM)	7	15	13	23	17	22	25	24	22	17	25	16	11	8	7	4	14	(CM)	19	33
7	11	9	9	7	10	7	(CM)	12	17	18	24	21	24	25	23	21	18	17	14	9	7	6	13	18	9	29
8	15	16	7	10	10	10	5	18	14	30	34	32	38	17	30	20	19	31	38	7	6	5	17	11	14	38
9	19	7	6	4	17	14	5	18	12	18	32	23	22	17	13	10	11	11	13	9	7	8	9	8	10	32
10	18	17	12	24	10	6	21	12	9	13	14	17	12	8	9	8	8	10	10	9	7	15	11	16	7	24
11	17	9	6	7	10	7	8	15	31	14	18	22	(CM)	19	17	36	23	13	13	6	4	5	7	6	13	36
12	8	11	5	9	3	9	8	(CM)	39	26	36	25	28	14	12	13	18	8	13	13	6	18	7	23	15	39
13	7	5	8	13	8	13	8	9	16	12	12	14	16	16	14	15	15	10	10	8	10	5	7	11	11	16
14	18	24	9	10	7	14	7	11	28	24	12	8	9	24	25	17	19	22	(CM)	6	6	6	9	12	18	15
15	6	11	13	14	13	13	16	7	35	14	22	32	15	8	8	12	10	12	12	8	7	9	14	5	6	13
16	12	10	13	10	(CM)	(CM)	9	14	49	23	24	38	25	21	16	16	8	9	9	7	8	9	17	7	16	49
17	10	17	10	7	11	(CM)	11	25	45	33	45	25	30	20	17	17	20	13	7	6	5	6	17	12	18	45
18	6	26	10	5	14	15	16	22	21	23	26	20	26	25	10	25	39	23	7	4	22	16	15	7	18	39
19	10	15	26	9	12	7	8	13	30	35	33	26	9	12	20	11	17	11	9	8	8	12	9	7	16	35
20	25	29	9	7	15	16	14	25	21	31	14	34	38	36	22	20	23	13	7	6	5	13	34	33	20	38
21	15	26	10	28	16	5	6	13	11	9	12	11	13	11	33	26	10	10	10	6	4	4	8	6	13	38
22	6	5	21	16	8	8	10	22	38	30	42	25	28	28	32	20	20	14	9	7	10	17	11	9	18	42
23	8	5	5	6	23	15	(CM)	26	28	32	33	22	16	25	12	10	8	19	21	17	12	6	13	13	16	33
24	13	14	13	17	16	23	14	8	16	31	22	(PF)	(PF)	12	16	19	29	15	12	8	8	13	8	5	15	31
25	5	7	5	6	5	5	11	10	19	34	29	34	24	16	29	21	13	13	7	6	39	10	11	10	15	39
26	(CM)	19	10	(CM)	17	17	8	16	19	19	15	21	17	23	25	18	25	13	9	9	9	10	12	8	15	25
27	14	12	16	20	12	11	17	12	13	26	29	30	25	26	33	15	10	22	15	9	15	15	8	10	17	33
28	18	28	16	8	8	14	10	15	26	37	40	29	14	9	9	16	31	11	5	5	7	8	13	17	16	40
29	13	11	12	16	13	45	22	30	26	16	11	14	18	15	19	29	17	39	9	5	23	21	8	14	19	45
30	16	8	13	8	8	7	12	11	16	11	11	11	10	10	10	11	9	9	11	7	8	9	9	13	10	16
31	11	10	10	7	4	5	9	19	20	9	12	14	16	15	14	9	13	11	9	12	13	8	14	17	12	20
AV	12	14	11	12	11	12	12	17	24	23	24	23	20	19	18	18	18	15	9	7	10	13	13	12	15	
PK	25	29	26	28	23	45	23	30	49	37	45	38	38	36	33	36	39	39	21	17	39	43	34	33		49

SIGMA HORIZ. WIND DIR. @ 30M
DEGREES

CR-TRACT
TRAILFR AA23
AUG 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK	
1	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()	
2	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()	
3	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()	
4	5	8	14	8	29	13	22	11	9	19	16	16	18	17	15	20	16	13	13	8	4	3	28	26	8	14	28
5	12	10	16	(CM)	6	33	(CM)	11	18	27	20	29	23	24	18	25	32	17	16	8	4	3	22	9	14	29	
6	12	8	7	6	6	6	10	30	20	15	18	25	21	20	16	24	13	13	9	9	5	14	22	21	18	33	
7	25	5	19	8	5	9	11	15	17	25	19	21	22	20	19	16	13	13	8	5	5	9	27	26	15	27	
8	19	11	12	5	9	10	12	15	31	32	26	26	15	32	18	16	30	28	7	6	3	16	10	11	17	32	
9	17	7	6	4	9	11	10	21	10	15	25	17	17	15	12	9	10	12	8	6	7	8	8	9	11	25	
10	16	14	10	13	11	6	15	16	8	12	13	14	12	8	10	6	6	7	8	4	7	7	13	7	10	16	
11	21	5	6	7	8	5	6	29	26	13	16	33	(CM)	17	21	36	18	12	5	4	5	7	5	5	13	36	
12	6	16	16	24	17	7	15	16	25	31	35	24	23	13	11	12	20	7	14	8	10	5	17	11	16	35	
13	6	5	7	6	7	6	4	8	14	11	11	13	15	14	13	11	12	9	7	9	4	5	5	11	9	15	
14	15	24	10	8	10	25	6	10	22	20	10	7	8	19	18	16	17	27	15	6	6	11	(CM)	14	14	27	
15	(CM)	11	11	8	8	8	21	10	33	13	24	31	11	7	6	10	9	11	16	8	12	16	4	4	13	33	
16	3	5	10	(CM)	(CM)	12	10	12	25	20	24	34	22	18	16	13	7	7	7	3	4	(CM)	7	6	13	34	
17	5	11	15	20	22	26	8	23	39	27	33	23	29	18	15	26	30	12	6	5	6	11	19	34	18	39	
18	11	6	21	15	11	9	14	29	31	21	24	16	23	24	9	9	15	19	5	2	28	25	23	5	18	31	
19	5	13	37	26	29	7	5	37	30	30	28	28	7	10	17	10	15	10	8	7	7	34	8	4	17	37	
20	29	18	8	10	30	7	10	11	20	28	13	26	36	33	20	20	20	13	5	3	3	6	42	12	18	42	
21	22	24	23	(CM)	41	15	8	22	10	8	10	10	12	10	30	25	9	9	9	4	4	4	4	10	10	14	41
22	5	5	20	11	9	5	8	24	32	30	33	24	30	29	26	18	18	13	8	4	6	24	15	12	17	33	
23	6	5	11	30	26	55	17	41	28	30	34	20	14	20	10	8	8	19	22	16	9	6	6	9	19	55	
24	15	17	8	8	12	18	11	8	15	25	21	(PF)	(PF)	9	16	16	20	14	10	6	7	14	5	7	13	25	
25	5	5	3	4	4	4	13	8	18	27	27	30	20	15	28	19	11	13	5	4	30	14	16	13	14	30	
26	(CM)	21	15	20	8	7	10	25	18	16	13	18	14	21	22	16	21	11	7	8	8	7	5	8	14	25	
27	13	27	16	22	13	11	14	9	12	19	27	31	22	22	28	14	9	21	13	8	16	13	6	14	17	31	
28	20	17	34	11	10	14	5	10	21	33	33	25	12	8	7	15	33	9	3	3	4	6	12	17	15	34	
29	14	14	18	23	15	35	22	30	24	14	9	12	17	14	16	25	16	31	7	4	14	16	6	16	17	35	
30	11	6	12	9	6	6	11	10	14	10	12	10	9	10	9	10	9	7	8	6	6	7	7	13	9	14	
31	10	10	11	4	2	4	5	15	22	9	11	12	14	14	13	9	11	10	8	12	9	7	16	18	11	22	
AV	13	12	14	12	13	13	11	18	21	21	21	21	18	17	17	16	16	14	9	6	8	13	13	12	15		
PK	29	27	37	30	41	55	22	41	39	33	35	34	36	33	30	36	33	31	22	16	30	34	42	34		55	

SIGMA HORIZ. WIND DIR. @ 60M
DEGREES

CR-TRACT
TRAILER AA23
AUG 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
2	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
3	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
4	2	3	4	2	10	9	13	7	8	17	15	17	17	15	13	18	12	11	8	4	2	2	8	7	3	17
5	12	20	9	9	(CM)	9	15	12	22	29	19	24	21	22	17	21	14	15	7	2	2	6	26	33	11	33
6	17	7	4	5	4	4	7	30	21	14	18	21	22	18	16	23	13	11	8	7	8	9	32	13	16	32
7	11	10	21	10	4	3	7	14	14	20	17	17	18	17	18	15	12	13	7	5	6	10	12	12	13	30
8	6	19	7	2	13	(CM)	18	16	30	29	21	25	14	24	17	14	28	25	6	5	4	9	10	8	15	30
9	15	6	5	4	10	7	8	18	8	15	21	16	15	14	12	10	10	12	6	5	7	8	7	8	10	21
10	15	12	14	10	11	7	10	17	7	10	11	13	10	7	8	6	5	7	6	3	7	3	5	6	9	17
11	21	6	7	18	12	5	8	33	23	14	16	33	25	14	20	36	17	14	5	2	4	8	4	3	15	36
12	6	17	9	13	13	18	18	20	37	34	34	18	26	13	9	12	21	6	17	7	12	5	9	6	16	37
13	7	6	5	2	4	4	7	6	13	9	10	13	13	12	11	13	13	9	6	8	4	4	3	18	8	18
14	17	24	18	16	14	29	8	10	29	17	11	5	7	20	16	14	16	24	18	7	4	8	25	(CM)	16	29
15	7	11	6	5	4	5	27	26	28	12	21	35	10	5	4	9	9	10	19	8	17	24	8	5	13	35
16	4	4	8	15	23	14	9	10	23	20	18	22	19	15	12	12	6	7	7	5	5	12	5	4	12	28
17	7	9	(CM)	18	11	22	10	23	44	20	31	22	24	15	14	14	18	11	5	4	7	9	20	17	16	44
18	12	8	9	20	9	21	14	(CM)	35	21	23	16	21	22	8	25	28	16	3	1	21	17	33	7	17	35
19	5	9	25	40	35	20	10	32	38	29	29	32	7	9	15	9	15	9	9	6	3	23	12	9	18	40
20	19	10	7	10	24	15	13	13	40	26	13	21	33	30	18	19	17	11	5	2	2	2	11	3	16	40
21	11	12	21	24	36	27	29	19	10	7	10	9	11	8	25	21	14	7	8	3	2	3	8	8	14	36
22	14	4	20	11	17	5	7	17	32	27	35	24	32	24	26	16	15	11	6	4	3	38	24	44	19	44
23	14	11	8	17	12	28	5	38	28	27	32	18	12	18	9	7	7	24	27	14	8	4	3	4	16	38
24	12	16	7	5	6	13	15	6	18	22	23	(PF)	(PF)	8	12	15	19	14	6	7	5	16	5	7	12	23
25	5	6	5	18	11	4	4	5	18	26	23	27	17	12	26	17	11	13	5	4	14	24	10	15	13	27
26	39	16	9	16	20	11	13	13	16	17	12	15	14	24	23	14	19	10	6	8	5	5	3	4	14	39
27	7	11	13	26	13	13	18	12	15	18	24	30	20	18	23	13	7	18	11	7	13	18	5	12	15	30
28	25	12	13	19	8	11	4	5	29	33	41	24	11	6	6	17	33	8	2	2	3	4	9	22	15	41
29	21	9	14	22	15	36	19	28	23	12	8	11	16	17	17	23	16	27	7	3	4	7	6	13	16	36
30	7	5	10	9	4	4	7	9	12	8	11	9	7	8	8	9	8	6	6	5	4	5	6	13	8	13
31	10	11	11	5	3	5	7	18	30	7	10	11	13	14	12	9	10	9	6	9	11	5	18	19	11	30
AV	13	11	11	13	13	13	12	17	23	19	20	20	17	15	15	15	15	13	8	5	7	10	12	12	14	
PK	39	24	25	40	36	36	29	38	44	34	41	35	33	30	26	36	33	27	27	14	21	38	33	44	44	

TEMPERATURE
DEGREE C

CR-TRACT
TRAILER AR20
AUG 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	19	22	21	21	17	17	17	20	23	24	26	27	28	28	27	29	27	26	26	22	19	18	14	13	22	29
2	11	11	10	9	9	9	13	18	25	29	31	31	31	30	32	32	30	29	29	26	21	18	16	14	21	32
3	13	12	12	12	11	10	13	19	26	29	29	31	31	32	32	32	31	31	30	26	21	17	16	14	22	32
4	13	13	13	12	12	12	13	19	26	28	28	29	31	31	32	32	32	31	30	27	21	18	16	13	22	32
5	12	11	9	8	7	7	9	15	22	28	31	32	33	34	34	34	34	33	32	26	20	17	14	13	21	34
6	11	9	8	7	7	6	8	14	19	22	24	27	30	31	31	32	31	30	28	26	23	19	16	13	20	32
7	11	9	9	8	7	6	8	14	19	22	24	27	28	29	29	29	29	28	27	23	22	18	14	11	19	29
8	9	8	8	8	7	7	9	14	19	23	27	28	28	30	29	29	29	28	26	23	18	16	14	21	20	30
9	19	17	14	11	9	8	9	14	18	20	22	24	25	27	27	26	24	24	23	21	18	16	14	14	19	27
10	13	11	11	11	11	11	12	13	16	17	16	17	18	19	18	18	17	17	16	16	14	13	13	13	14	19
11	11	11	11	11	11	11	12	13	16	17	16	17	18	19	20	21	20	19	16	14	13	13	13	13	14	19
12	13	12	12	11	10	9	10	13	18	19	22	23	23	23	23	23	23	23	22	19	12	11	11	11	15	23
13	10	9	10	10	10	11	11	13	16	19	21	16	17	19	23	25	25	23	22	19	16	14	12	12	15	22
14	13	13	12	11	10	9	10	13	18	22	23	25	26	27	28	28	28	26	23	20	17	14	12	11	16	25
15	11	11	10	10	11	11	11	13	16	21	23	25	26	27	28	28	26	24	23	20	17	14	12	11	18	28
16	11	10	9	7	7	7	8	13	18	22	24	26	27	28	28	28	28	28	26	21	18	15	13	11	18	28
17	9	8	8	7	7	7	8	13	19	24	27	29	28	28	27	28	27	26	26	22	17	14	13	12	18	28
18	11	11	9	9	9	8	11	16	22	27	29	29	28	28	28	28	27	26	28	26	21	17	14	13	18	29
19	11	11	9	9	9	8	11	16	22	27	29	29	28	28	28	28	27	26	28	26	21	17	14	13	18	28
20	11	11	11	12	11	11	14	16	22	27	26	27	28	30	29	31	30	29	28	22	18	15	13	12	20	31
21	12	11	9	8	8	9	12	16	19	21	22	19	17	17	19	20	20	19	16	14	14	13	12	10	15	22
22	9	8	8	8	8	9	11	12	16	19	22	24	25	24	26	26	26	25	23	21	17	14	12	11	17	26
23	10	11	10	9	8	8	9	14	21	25	27	27	28	28	27	27	26	24	23	22	19	17	13	12	19	28
24	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	24
25	12	11	11	11	10	9	11	15	21	26	28	29	28	29	30	31	26	19	19	18	17	14	12	11	19	31
26	10	10	9	8	8	8	8	12	18	23	26	27	28	31	31	29	30	28	24	22	19	16	14	14	19	31
27	14	14	14	14	13	12	12	15	20	24	27	27	28	29	29	28	26	24	19	17	16	14	14	12	19	29
28	11	12	11	11	9	8	9	14	19	25	27	29	27	27	25	26	29	28	26	20	17	15	14	14	19	29
29	14	14	14	14	15	15	14	15	20	23	24	25	24	21	22	25	24	20	19	18	16	14	15	16	18	25
30	16	15	13	13	13	13	12	14	18	22	23	26	27	25	26	26	19	14	14	13	14	15	14	14	18	27
31	14	13	12	11	11	9	10	13	18	22	23	24	24	26	25	23	22	21	21	20	18	16	15	13	18	26

MONTHLY MINIMUM = 6

AV	12	12	11	10	10	9	11	14	19	23	25	25	26	26	26	26	26	24	23	20	17	15	14	13	18	
PK	19	22	21	21	17	17	17	20	26	29	31	32	33	34	34	34	34	33	32	27	23	19	20	21		34
MM	9	8	8	7	7	6	8	11	13	14	16	16	17	13	14	14	14	14	14	13	11	11	11	9		

TEMPERATURE @ 10M
DEGREE C

CR-TRACT
TRAILFR AA23
AUG 1981
OCCIDENTAL OIL SHALE INC.

DAY	HOUR (LOCAL STANDARD TIME)																								AVE PEAK	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()	
2	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()	
3	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()	
4	21	19	19	19	18	18	18	23	24	26	26	27	28	28	28	28	28	28	28	25	23	23	21	21	21	28
5	18	18	16	17	17	16	16	19	22	25	28	29	29	30	31	31	31	31	29	25	22	22	21	21	24	29
6	19	18	17	14	14	13	13	15	17	19	22	24	27	27	28	28	27	27	26	24	22	21	20	19	21	31
7	17	16	16	14	13	12	13	16	17	20	22	24	26	26	26	26	26	26	24	23	21	11	18	17	20	28
8	16	14	14	13	13	12	13	15	18	21	23	25	26	27	26	26	27	27	25	23	21	20	18	18	20	26
9	18	17	14	13	13	11	12	14	16	18	19	21	22	23	24	23	22	22	21	19	17	16	14	13	17	27
10	13	11	10	9	9	9	8	11	12	13	13	14	14	11	11	11	11	11	12	12	11	11	11	9	11	14
11	9	9	8	9	8	9	9	11	12	13	13	14	14	15	16	16	15	15	14	14	13	13	13	12	12	16
12	12	12	11	11	10	9	9	11	14	16	18	19	19	19	19	19	16	12	12	12	11	11	11	11	10	19
13	9	11	11	12	11	12	12	13	16	17	18	17	19	20	20	23	22	18	14	13	12	12	13	13	15	20
14	13	13	13	12	11	11	12	14	18	20	21	25	22	19	22	23	22	22	21	19	18	16	15	14	17	23
15	14	14	13	14	14	14	13	14	19	20	21	25	22	19	16	17	18	18	18	16	14	14	12	12	16	25
16	14	13	12	11	12	12	12	14	17	22	23	25	26	27	26	27	24	22	21	18	17	16	14	14	18	27
17	13	13	11	11	11	10	11	15	20	22	24	25	26	27	25	26	26	26	23	21	19	18	16	14	19	27
18	14	13	13	13	11	11	12	16	21	24	27	27	28	27	24	27	27	27	23	21	18	18	17	16	20	28
19	17	16	15	13	14	14	15	19	23	26	28	28	24	24	27	25	24	26	25	22	19	17	17	17	21	28
20	17	16	17	16	16	14	16	19	23	27	23	24	27	28	28	28	28	28	26	22	20	19	17	17	21	28
21	16	16	16	15	14	13	15	20	23	27	23	18	16	17	17	18	19	18	14	13	14	14	13	12	16	23
22	12	12	11	11	11	11	11	12	16	19	22	22	24	24	26	24	24	24	23	19	17	16	15	15	17	26
23	14	14	13	12	12	12	13	17	22	24	26	26	26	26	24	25	23	23	22	21	19	18	17	17	19	26
24	14	14	15	16	15	16	16	16	19	23	21	(PF)	(PF)	21	19	23	25	24	22	19	17	16	14	14	18	25
25	13	13	13	13	13	13	14	17	22	24	27	29	27	26	29	29	27	22	22	22	19	18	16	16	20	29
26	13	13	13	13	12	13	14	16	19	23	26	27	28	29	29	29	28	26	22	20	18	17	15	14	20	28
27	15	16	14	16	15	14	14	16	21	23	26	27	27	28	27	26	24	22	19	18	17	16	15	14	20	28
28	14	14	13	13	14	14	14	17	22	24	26	26	26	23	22	24	28	26	23	19	19	19	19	17	20	28
29	16	16	16	16	16	16	16	18	19	21	22	23	23	23	23	27	24	17	16	16	15	14	14	13	18	27
30	13	13	12	11	12	12	12	15	18	21	23	23	24	23	24	24	16	11	11	12	12	13	12	12	16	24
31	13	12	11	11	11	10	11	14	18	19	20	21	22	24	24	22	21	19	19	18	16	15	14	13	17	24
AV	15	14	14	13	13	13	13	16	19	21	22	23	24	24	24	24	23	22	21	19	17	17	16	15	18	
PK	21	19	19	19	18	18	18	23	24	27	28	29	30	31	31	31	31	31	29	27	25	22	23	21		31
MN	9	9	8	9	8	9	8	11	12	13	13	14	14	11	11	11	11	11	11	12	11	11	11	9		

MONTHLY MINIMUM = 8

TEMPERATURE @ 30M
DEGREE C

CR-TRACT
TRAILER AA23
AUG 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
2	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
3	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
4	22	21	21	21	19	19	19	23	24	25	26	26	27	28	28	28	28	28	27	25	25	23	22	22	24	28
5	20	21	18	17	17	17	17	18	22	24	27	28	29	29	28	28	28	28	28	28	26	24	23	22	24	28
6	20	19	18	16	15	13	13	14	17	19	22	24	26	27	27	30	30	30	30	29	27	25	23	21	24	30
7	18	17	17	14	14	13	13	15	17	19	22	23	24	25	26	26	26	26	26	24	22	22	21	20	21	27
8	17	16	15	16	14	13	13	14	15	18	21	23	24	25	26	26	26	26	25	23	22	21	19	18	20	26
9	18	17	14	14	14	12	12	14	15	17	19	20	22	23	23	22	21	21	21	19	17	16	14	13	17	23
10	13	11	11	10	9	11	8	10	11	12	13	14	14	15	15	16	14	15	14	12	12	12	11	11	11	14
11	9	9	9	9	9	9	9	11	12	12	13	14	14	15	15	16	14	15	14	12	12	13	13	12	12	16
12	12	12	12	12	11	11	11	11	13	13	16	17	18	18	19	19	16	12	12	12	11	11	12	11	14	19
13	11	12	12	13	12	12	13	13	14	17	19	18	17	18	19	18	18	17	14	13	12	12	13	13	15	20
14	14	13	13	13	12	12	13	14	17	19	21	23	21	18	22	23	22	22	21	19	18	18	16	15	17	23
15	14	14	14	15	15	15	14	15	18	19	21	23	26	26	26	27	27	18	18	16	15	14	13	13	17	23
16	14	14	13	13	12	12	12	14	17	21	23	24	25	26	26	27	23	22	21	19	18	16	15	14	18	27
17	14	14	13	12	11	11	12	15	19	22	23	24	25	26	24	25	27	26	23	21	20	19	17	16	19	27
18	15	14	14	13	13	13	13	16	20	23	26	27	27	26	24	26	27	26	24	22	20	19	19	17	20	27
19	18	17	17	14	14	15	16	18	23	26	27	27	23	24	27	25	23	25	24	22	21	19	18	18	21	27
20	18	16	17	17	17	16	16	19	23	26	22	23	26	27	28	28	28	27	26	23	22	21	19	19	22	28
21	18	17	17	16	16	16	16	20	22	19	19	18	16	16	17	18	18	18	14	14	15	15	14	13	17	22
22	13	13	12	11	11	12	11	12	15	18	21	22	23	23	25	23	24	24	23	22	19	17	16	16	17	25
23	15	16	14	13	14	13	14	17	21	23	25	26	26	26	24	24	23	23	22	21	20	18	18	20	26	26
24	16	16	16	17	17	17	17	17	19	23	21	(PF)	(PF)	21	19	22	24	23	22	19	18	17	16	15	19	24
25	15	14	14	15	15	15	16	18	22	24	27	28	27	26	28	28	26	22	23	22	20	18	17	17	21	28
26	16	15	14	14	14	14	15	16	19	23	24	26	26	27	28	28	28	26	22	21	19	18	17	17	20	28
27	16	16	15	16	16	16	15	16	20	23	25	26	26	27	27	26	24	22	19	18	17	16	16	16	20	27
28	15	15	14	14	14	14	15	18	21	24	26	25	26	23	22	24	27	26	23	21	21	19	19	17	20	27
29	17	17	16	16	16	16	16	17	19	22	22	22	23	22	22	26	23	17	16	16	16	16	14	14	18	26
30	14	14	12	12	13	13	12	14	18	20	22	23	24	23	24	24	17	12	12	12	13	13	12	12	16	24
31	13	12	12	12	12	11	12	14	18	19	21	22	22	23	24	22	21	19	19	18	17	16	14	13	17	24
AV	16	15	15	14	14	14	14	16	18	21	22	23	23	23	23	24	23	22	21	19	18	17	16	16	18	18
PK	22	21	21	21	19	19	19	23	24	26	27	28	29	29	30	30	30	30	29	27	26	25	23	22	30	30
MIN	9	9	9	9	9	9	8	10	11	12	13	14	14	11	11	11	11	12	12	12	11	11	11	11	11	11

MONTHLY MINIMUM = 8

TEMPERATURE @ 60M
DEGREE C

CR-TRACT
TRAILER AA23
AUG 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK	
1	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()	
2	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()	
3	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()	
4	23	23	22	23	21	20	20	23	24	25	26	26	27	27	28	28	28	28	27	26	26	23	23	23	25	28	
5	21	21	19	18	18	18	18	19	22	24	27	28	28	29	29	30	30	29	29	29	28	27	26	24	22	24	30
6	21	19	18	16	15	14	13	14	17	19	22	24	26	27	27	27	27	27	26	24	24	23	22	21	21	27	
7	18	18	17	16	14	13	13	15	17	19	22	23	24	25	26	26	26	25	24	23	21	19	19	18	20	26	
8	18	17	17	16	14	14	12	15	18	21	23	24	24	26	26	26	26	26	25	24	23	21	18	20	26		
9	18	17	14	14	12	12	12	14	15	17	19	20	21	23	24	23	22	21	20	18	17	16	13	13	17	24	
10	12	12	11	10	10	11	9	10	11	12	12	13	14	14	15	15	14	14	14	14	14	14	12	11	11	14	
11	10	9	9	9	9	9	10	11	12	12	13	13	14	14	15	15	14	14	14	14	14	14	13	13	12	15	
12	13	12	12	12	12	11	11	12	13	16	17	18	19	20	19	18	18	17	17	17	16	15	14	14	19		
13	11	12	13	13	13	13	13	14	16	18	18	17	19	20	19	18	18	22	22	21	19	18	17	16	15	20	
14	14	14	14	15	16	16	14	16	19	19	21	23	21	18	17	17	17	18	18	16	15	14	14	17	23		
15	14	14	13	13	13	13	13	14	17	21	23	24	26	26	26	26	27	26	25	24	23	21	20	19	27		
16	14	14	13	12	11	11	12	16	19	23	24	25	26	26	26	26	27	26	25	24	23	21	18	17	27		
17	15	14	13	12	11	11	12	16	19	23	24	25	26	26	26	26	27	26	25	24	23	21	20	19	27		
18	16	15	15	14	13	12	13	17	21	24	27	27	28	26	24	24	26	27	26	25	23	22	21	21	28		
19	18	18	17	16	15	15	16	19	23	26	27	27	28	25	27	28	27	25	24	22	22	20	18	18	27		
20	18	17	17	17	17	16	16	20	24	26	26	24	26	27	28	28	27	27	26	25	23	22	21	22	28		
21	20	18	18	17	17	16	16	22	23	19	19	18	16	16	18	18	18	18	14	15	16	16	14	17	23		
22	13	13	13	11	11	12	11	12	15	18	21	22	23	23	24	23	24	23	22	21	19	18	17	21	24		
23	15	15	15	14	14	14	15	18	21	23	24	26	26	26	24	24	23	22	22	21	19	19	18	20	26		
24	18	17	16	17	17	17	17	18	19	23	21	(PF)	(PF)	21	19	22	24	23	22	20	18	17	16	19	24		
25	15	16	16	16	16	16	17	19	22	26	27	28	27	26	28	28	26	26	25	24	22	21	18	21	28		
26	16	16	15	15	14	14	16	17	20	23	25	26	28	28	28	28	28	26	25	24	22	18	17	21	28		
27	17	17	16	16	16	16	16	17	21	24	26	27	28	28	28	26	24	22	19	18	17	17	16	20	28		
28	16	16	16	14	14	14	15	18	21	24	26	25	27	24	22	24	27	26	23	22	21	20	18	17	27		
29	17	17	16	16	16	16	16	17	19	22	22	23	23	22	22	26	23	17	17	17	16	16	14	19	26		
30	14	14	13	12	13	13	12	14	18	21	23	23	24	23	24	24	16	12	12	12	13	13	12	16	24		
31	13	12	12	12	12	12	12	14	18	20	21	22	23	23	23	22	20	19	19	18	17	16	14	17	23		
AV	16	16	15	15	14	14	14	16	19	21	22	23	23	23	23	24	23	22	21	20	19	18	17	16	19		
PK	23	23	22	23	21	20	20	23	24	26	27	28	28	29	29	30	30	29	28	28	27	26	24	23	30		
MN	10	9	9	9	9	9	9	10	11	12	12	13	14	11	10	11	11	11	12	12	11	11	11	11	11		

MONTHLY MINIMUM = 9

TEMPERATURE @10M

C-B TRACT
MRI AD42
August, 1981

Refer to pages II-465 through II-501

Mechanical Recordering Instrument was removed and replaced by an R.A. solar powered data acquisition system installed July 25, 1981. Monitoring of data and maintenance of the instrumentation was contracted to WestAq Corp. upon purchase of the equipment.

TEMPERATURE @10M

C-B TRACT
MRI AD56
August, 1981

DATA NOT AVAILABLE AT REPORT TIME

DELTA TEMPERATURE 60-10M
DEGREE C*100

CH-TRACT
TRAILER AA23
AUG 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
2	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
3	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
4	274	306	239	317	228	167	117	-33	-83	-89	-89	-94	-100	-111	-100	-89	-100	-78	-50	117	250	161	167	167	244	250
5	306	306	250	167	72	194	256	50	-67	-67	-94	-100	-83	-78	-111	-100	-78	-72	-44	100	144	300	128	283	69	306
6	167	117	133	122	94	111	-33	-83	-83	-100	-106	-106	-94	-89	-83	-83	-61	-56	-22	17	44	94	83	83	0	167
7	200	122	117	156	122	78	-11	-89	-111	-128	-133	-144	-139	-133	-89	-94	-89	-83	-56	-6	28	44	39	61	-14	200
8	217	183	244	133	156	156	39	-56	-78	-89	-106	-106	-122	-111	-89	-94	-89	-56	-17	56	167	111	-33	-22	16	244
9	-28	-6	11	78	117	111	17	-61	-100	-111	-111	-111	-128	-117	-6	33	-39	-83	-61	-22	6	-17	-56	-56	-31	117
10	-56	83	56	67	106	72	33	-56	-83	-89	-94	-83	-78	-56	-67	-72	-61	-56	-6	0	44	50	33	133	-7	133
11	78	44	56	72	61	39	22	-50	-72	-78	-78	-67	-67	-67	-61	-83	-56	-56	-50	-17	78	78	33	11	-8	78
12	11	11	33	72	122	133	94	17	-61	-61	-44	-100	-94	-67	-61	-83	-17	17	44	67	33	22	94	83	11	133
13	100	83	106	150	122	67	67	0	-17	28	0	-44	-33	-22	-39	-61	-33	-56	-61	-67	-22	61	83	67	20	150
14	33	28	67	56	56	56	44	11	-17	-28	-122	17	28	-17	33	-6	-33	-39	-33	-6	50	106	111	78	20	111
15	28	0	56	67	139	172	106	94	-6	-39	-33	-133	-78	-28	50	-6	-56	-50	-50	0	11	56	172	133	25	172
16	72	150	128	106	33	6	33	106	44	17	-11	-39	-44	-11	-50	11	-33	-106	-72	39	128	78	67	144	36	172
17	106	128	106	144	122	106	94	72	17	0	-78	-72	-106	-156	-194	-61	-67	-56	-106	-44	56	33	6	56	22	128
18	156	106	144	122	106	94	72	17	11	-39	-50	-167	-83	11	-6	-39	-33	-44	-56	-17	128	211	67	44	38	211
19	150	172	94	172	111	89	111	67	11	-39	-50	-167	-83	11	-6	-39	-33	-44	-56	-17	128	211	67	44	38	211
20	67	72	17	33	83	50	44	83	56	-61	-139	11	-50	-56	-44	-56	-78	-83	-28	144	244	233	222	428	50	428
21	339	167	200	183	194	256	261	156	-44	-94	-106	-100	-156	-111	-144	-83	-56	-67	-44	39	106	106	56	28	-13	111
22	56	111	111	28	17	28	0	0	-44	-94	-106	-100	-156	-111	-144	-83	-56	-67	-44	39	106	106	56	28	-13	111
23	56	67	111	167	133	183	200	78	-33	-94	-139	-72	-22	-50	-44	-61	-61	-56	-39	-44	0	22	72	189	23	200
24	244	194	72	128	183	111	117	122	0	6	-22	(PF)	(PF)	-61	-6	-28	-33	-22	6	78	50	78	156	133	68	244
25	161	200	244	233	206	211	183	183	33	94	17	-50	11	-56	-33	-72	-44	-194	6	78	100	28	89	128	73	244
26	239	167	150	106	144	94	156	128	61	17	-39	-33	-39	-22	-33	-33	-50	-72	-22	-39	17	72	89	122	49	239
27	94	122	100	56	44	111	122	39	72	83	28	-11	11	-44	44	-50	-72	-28	-11	-17	33	117	94	89	43	122
28	56	106	167	61	0	44	56	78	-11	44	-17	-67	-11	17	-33	-33	-72	-83	-22	156	194	22	-44	17	26	194
29	83	78	50	28	17	-17	-17	-44	-33	-28	-33	-50	-72	-33	-17	-67	-61	-50	50	156	133	89	117	39	13	156
30	50	33	0	56	56	22	0	-22	-22	-22	-28	6	-11	-33	-39	-56	-56	6	39	6	50	0	-11	6	1	56
31	-11	33	56	89	78	144	100	6	33	0	-50	-39	-94	-122	-72	-72	-50	-28	-33	-17	-6	44	-11	6	-1	144

MONTHLY MINIMUM = -194

AV	116	114	111	112	103	103	82	28	-24	-35	-64	-69	-63	-64	-46	-54	-58	-59	-27	37	89	91	72	97	25
PK	339	306	250	317	228	256	261	183	72	94	28	17	28	17	50	33	-17	17	50	156	250	300	222	428	428
MIN	-56	-6	0	28	0	-17	-33	-89	-111	-128	-139	-167	-156	-156	-194	-100	-106	-194	-106	-67	-22	-17	-56	-56	

RELATIVE HUMIDITY @ 3M
PERCENT

CB-TRACT
TRAILER AA23
AUG 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	53	53	52	53	54	55	59	62	62	59	57	54	51	49	48	47	46	47	46	47	52	55	57	58	53	62
2	51	63	64	62	63	64	67	66	60	51	47	46	46	56	55	55	54	54	55	55	55	57	58	58	57	67
3	49	50	51	51	52	53	54	55	52	47	47	46	46	45	45	45	45	45	45	45	45	47	48	49	48	55
4	50	50	51	51	51	52	53	54	53	47	46	45	45	45	44	44	44	44	44	44	44	45	45	45	47	54
5	45	45	47	48	49	49	49	50	50	47	45	44	44	44	44	44	44	44	44	44	44	44	44	45	46	50
6	45	46	46	47	48	49	55	62	64	60	58	52	49	46	45	44	44	44	44	45	45	45	46	47	49	64
7	49	51	52	53	54	57	59	60	61	60	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	()	61
8	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	()	()	
9	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	()	()	
10	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	()	()	
11	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	()	()	
12	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	()	()	
13	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	()	()	
14	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	()	()	
15	44	43	43	44	45	47	47	49	48	35	33	28	26	29	35	30	27	27	29	29	36	40	44	45	()	52
16	45	46	48	50	51	50	50	51	48	38	26	24	23	23	22	21	21	21	23	23	27	30	33	35	35	51
17	36	39	44	47	48	50	50	46	38	29	24	23	22	22	21	21	21	21	21	21	22	23	25	28	31	50
18	31	31	32	34	36	37	37	36	31	26	23	22	21	21	22	22	21	21	21	22	26	27	28	30	27	37
19	31	31	31	32	35	38	39	39	34	27	24	22	22	23	23	22	22	23	22	22	24	29	30	32	28	39
20	32	33	35	35	35	35	34	39	36	31	25	30	33	24	23	22	21	21	21	21	22	25	25	27	29	39
21	24	29	30	30	30	31	33	34	31	26	29	30	47	46	45	43	42	41	59	60	52	51	50	57	40	60
22	57	62	59	59	60	60	58	60	58	48	33	29	28	27	25	25	25	24	24	27	31	34	38	39	41	62
23	41	43	45	49	51	52	53	51	39	29	26	25	25	23	25	25	25	25	25	25	25	27	29	30	34	53
24	33	33	34	34	35	35	37	37	37	33	28	52	57	52	42	32	28	27	27	31	35	36	41	44	37	57
25	46	49	50	50	49	49	49	47	41	32	26	24	23	24	24	23	23	23	33	29	27	29	29	35	35	50
26	35	40	40	40	40	40	40	41	39	31	28	25	25	24	23	23	23	23	23	26	28	30	33	34	31	41
27	36	38	39	41	41	41	41	43	42	34	29	26	25	24	23	24	24	24	28	39	36	39	43	44	34	44
28	45	45	45	47	46	47	48	47	(RF)	(RF)	30	28	27	27	26	27	27	25	25	25	32	32	32	35	35	48
29	37	38	41	41	43	43	45	45	43	41	37	34	34	31	31	33	28	28	48	59	56	52	54	53	41	59
30	54	54	53	61	65	60	55	55	52	42	34	31	29	29	29	26	25	25	42	63	63	59	54	54	46	65
31	55	54	54	55	56	58	60	60	52	42	32	31	31	30	29	28	27	25	25	26	26	28	30	34	40	60

AV	43	44	45	46	47	48	49	50	47	40	34	34	35	34	33	32	31	31	34	36	37	39	40	42	39	67
PK	61	63	64	62	65	64	67	66	64	60	58	54	57	56	55	55	54	54	59	63	63	59	58	58	39	
MN	28	29	30	30	30	31	33	34	31	26	23	22	21	21	21	21	21	21	21	21	22	23	25	27		

MONTHLY MINIMUM = 21

SOLAR RADIATION
LANGLEY

CR-TRACT
TRAILER AR23
AUG 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TL PEAK
1	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	0 ()
2	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	0 ()
3	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	0 ()
4	0	0	0	0	0	1	8	30	45	59	71	65	72	73	65	44	34	22	7	0	0	0	0	0	246
5	0	0	0	0	0	2	14	31	46	59	69	76	76	72	64	53	38	19	5	0	0	0	0	0	604
6	0	0	0	0	0	2	14	30	46	59	70	75	76	72	64	52	37	20	6	0	0	0	0	0	623
7	0	0	0	0	0	2	14	29	44	58	68	74	76	73	64	50	36	18	5	0	0	0	0	0	618
8	0	0	0	0	0	2	13	29	44	58	68	71	76	71	52	36	30	20	5	0	0	0	0	0	614
9	0	0	0	0	0	1	13	28	44	56	67	73	74	74	64	49	35	21	5	0	0	0	0	0	554
10	0	0	0	0	0	1	8	24	20	26	23	22	8	4	8	11	5	9	3	0	0	0	0	0	605
11	0	0	0	0	0	1	6	20	23	24	20	19	18	25	17	22	14	6	2	0	0	0	0	0	173
12	0	0	0	0	0	1	6	20	27	51	66	49	48	22	55	44	4	2	1	0	0	0	0	0	217
13	0	0	0	0	0	0	4	11	34	53	43	23	59	45	30	21	11	3	0	0	0	0	0	0	395
14	0	0	0	0	0	0	4	14	34	48	8	9	30	40	40	42	19	10	4	0	0	0	0	0	303
15	0	0	0	0	0	0	4	14	37	29	52	53	12	4	2	12	16	10	2	0	0	0	0	0	248
16	0	0	0	0	0	0	6	16	37	55	65	72	74	73	50	55	15	14	5	0	0	0	0	0	537
17	0	0	0	0	0	1	11	27	42	56	67	71	75	70	41	40	40	21	3	0	0	0	0	0	563
18	0	0	0	0	0	1	11	26	42	55	67	74	62	37	41	41	25	14	1	0	0	0	0	0	499
19	0	0	0	0	0	1	11	26	42	55	64	55	19	50	52	21	16	15	4	0	0	0	0	0	431
20	0	0	0	0	0	1	11	26	41	48	17	47	41	47	53	48	34	17	3	0	0	0	0	0	434
21	0	0	0	0	0	1	10	26	28	37	34	15	17	7	11	13	10	4	0	0	0	0	0	0	214
22	0	0	0	0	0	0	2	13	38	49	64	70	56	65	57	35	25	11	1	0	0	0	0	0	487
23	0	0	0	0	0	0	9	25	40	54	53	62	49	22	34	45	10	4	1	0	0	0	0	0	407
24	0	0	0	0	0	0	2	9	31	34	25	(PF)	(PF)	35	25	44	34	14	1	0	0	0	0	0	256
25	0	0	0	0	0	1	9	24	40	53	66	76	40	52	56	52	29	5	3	0	0	0	0	0	505
26	0	0	0	0	0	0	9	23	40	53	64	70	72	69	45	40	29	9	1	0	0	0	0	0	524
27	0	0	0	0	0	0	5	20	38	53	64	68	70	53	48	25	8	1	0	0	0	0	0	0	454
28	0	0	0	0	0	0	8	23	39	53	65	29	73	37	14	30	31	14	1	0	0	0	0	0	416
29	0	0	0	0	0	0	6	11	36	55	48	54	64	26	22	49	11	1	2	0	0	0	0	0	385
30	0	0	0	0	0	0	3	22	38	52	62	69	67	49	41	17	1	1	0	0	0	0	0	0	422
31	0	0	0	0	0	0	7	22	38	52	62	65	62	68	44	9	4	2	0	0	0	0	0	0	436
TL	0	0	0	0	0	15	233	620	1054	1397	1513	1506	1457	1406	1222	1051	638	319	74	0	0	0	0	0	0
PK	0	0	0	0	0	2	14	31	46	59	71	76	76	74	65	55	40	22	7	0	0	0	0	0	76

BAROMETRIC PRESSURE
MILLIBARS

CR-TRACT
TRAILER AR23
AUG 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
2	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
3	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	(WR)	()	()
4	787	787	787	787	787	787	787	787	787	787	787	787	787	787	787	787	787	787	787	787	787	787	787	787	788	788
5	790	790	791	791	791	791	791	791	791	791	791	791	791	791	791	791	791	791	791	791	791	791	791	791	792	792
6	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	793	793
7	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	793	793
8	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	793	793
9	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	791	791
10	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	793	793
11	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	791	791
12	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	790	790
13	787	787	787	787	787	787	787	787	787	787	787	787	787	787	787	787	787	787	787	787	787	787	787	787	788	788
14	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790
15	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792
16	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	791	791
17	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790
18	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	790	790
19	789	789	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	791
20	791	790	790	790	790	790	791	791	791	791	791	791	791	791	791	791	791	791	791	791	791	791	791	791	790	790
21	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	790	790
22	793	793	793	793	793	793	794	794	794	794	794	794	794	794	794	794	794	794	794	794	794	794	794	794	794	794
23	793	793	793	793	793	793	793	793	793	793	793	793	793	793	793	793	793	793	793	793	793	793	793	793	793	793
24	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792
25	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	790	790
26	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	790	790
27	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	790	790
28	787	787	787	787	787	787	787	787	787	787	787	787	787	787	787	787	787	787	787	787	787	787	787	787	788	788
29	786	786	786	786	786	786	786	786	786	786	786	786	786	786	786	786	786	786	786	786	786	786	786	786	786	786
30	784	784	784	784	784	784	784	784	784	784	784	784	784	784	784	784	784	784	784	784	784	784	784	784	785	785
31	785	785	785	785	785	785	785	785	785	785	785	785	785	785	785	785	785	785	785	785	785	785	785	785	786	786
AV	790	790	790	790	790	790	790	791	791	791	791	791	791	790	790	790	790	789	789	789	790	790	790	790	790	790
PK	793	793	793	793	793	793	794	794	794	794	794	794	794	794	794	794	793	793	793	793	793	793	793	793	793	793
MN	785	785	785	785	785	785	785	786	786	786	786	785	785	785	784	784	785	785	785	785	785	785	785	785	785	785

MONTHLY MINIMUM = 784

PRECIPITATION
CM*100

CR-TRACT
TRAILER AR20
AUG 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TL PEAK
1																									
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10		5												8	25	13	3								
11																									
12																									
13												15	8												
14																									
15																									
16																									
17																									
18																									
19																									
20																									
21																			5						
22																									
23										5					5										
24																	76	5							
25																									
26																									
27																			8						
28																									
29																			10						
30					25	20													23	5	3				
31																									
TL (				25	20	(	(	(	(	(	5	15	8	8	30	13	79	5	46	5	3	(	(	(	267
PK		5	(	25	20	(	(	(	(	(	5	15	8	8	25	13	76	5	23	5	3	(	(	(	76

PRECIPITATION
CM#100

CR-TRACT
TRAILER AR23
AUG 1991
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TL	PEAK
1																										
2																										
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10	5												5	33	10										53	33
11																										
12														10											23	13
13																										
14																										
15																										
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26																										
27																										
28																										
29																										
30	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	()
31	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	()
TL	5	()	()	()	()	()	()	()	()	()	()	()	91	43	10	()	13	()	18	()	()	()	()	()	180	86
PK	5												86	33	10		13		18							

EVAPORATION

C-B TRACT
TRAILER AB23
August, 1981

NOT OPERATIONAL

INVERSION HEIGHT
METERS

CR-TRACT
TRAILER AC20
AUG 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	210	195	205	260	260	330	340	295	50	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	50	370	565	525	560	570	475	328	570
2	450	460	555	600	595	575	510	300	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	275	435	500	510	525	484	600
3	475	420	420	395	370	400	380	195	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	240	430	500	500	450	398	500
4	415	420	405	400	410	420	390	240	40	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	310	415	355	295	290	343	420
5	285	320	340	360	395	400	340	165	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	55	225	275	280	295	305	289	400
6	385	375	380	400	400	385	305	100	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	135	240	340	450	440	370	336	450
7	340	365	425	510	560	525	420	200	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	40	215	265	380	440	430	365	560
8	370	380	410	425	430	440	445	400	240	40	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	155	310	305	315	380	415	341	445
9	350	425	515	525	530	590	460	200	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	140	175	155	150	351	590
10	345	530	610	640	520	425	460	290	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	80	380	355	300	270	290	340	445	415	440	396	640
11	440	500	500	490	480	460	400	380	110	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	50	170	260	325	350	260	345	500
12	335	360	395	425	425	400	395	355	250	60	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	185	495	485	405	380	380	320	358	495
13	410	355	425	395	345	400	375	220	40	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	280	515	540	490	495	485	580	397	580
14	600	595	560	575	590	555	375	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	600
15	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	()	()
16	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	()	()
17	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	()	()
18	325	385	395	360	320	345	415	340	200	40	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	65	320	370	420	365	370	()	420
19	425	525	540	515	515	505	415	100	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	160	375	420	418	415	418	333	420
20	530	470	400	360	375	410	410	250	40	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	105	200	280	360	395	407	378	540
21	420	440	480	500	525	560	520	345	40	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	40	255	340	310	295	290	300	354	560
22	290	340	410	410	370	335	305	230	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	110	340	510	590	585	460	378	590
23	500	515	500	490	490	465	385	240	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	165	300	345	360	360	393	515
24	345	380	405	405	410	415	390	300	100	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	80	270	340	310	300	315	375	321	415
25	380	425	440	435	435	425	415	315	120	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	80	360	375	390	380	390	395	360	440
26	390	420	420	420	435	440	400	220	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	40	210	245	255	250	319	440
27	390	360	420	535	535	445	405	360	110	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	200	415	455	380	415	415	455	393	535
28	340	380	400	410	420	415	360	220	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	230	405	405	320	290	270	348	420
29	225	220	310	315	230	205	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	60	235	330	375	395	415	410	370	293	415
30	450	420	405	395	370	350	300	125	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	120	400	400	510	585	510	380	380	585
31	310	325	340	350	370	395	390	315	40	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	160	290	300	330	380	307	395
AV	383	404	429	440	433	429	396	257	()	()	()	()	()	()	()	()	()	()	216	312	363	393	393	379	357	
PK	600	595	610	640	595	590	520	400	250	60	()	()	()	()	80	380	355	380	515	565	525	590	585	580		640

STABILITY CLASS @ 50M
0=STR 1=UNST

CR-TRACT
TRAILER AC20
AUG 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	PREV
1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
15	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()
16	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()
17	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()
18	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1
19	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
PV	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0

STABILITY CLASS @ 200M
0=STR 1=UNST

CR-TRACT
TRAILER AC20
AUG 1981
OCCIDENTAL OIL SHALE INC.

DAY	HOUR (LOCAL STANDARD TIME)																			PREV
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0
2	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0
3	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0
4	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0
5	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
6	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
7	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
8	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
9	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
10	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
11	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
12	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
13	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
14	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
15	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()
16	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()
17	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()
18	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1
19	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0
20	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
21	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0
22	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0
23	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
24	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0
25	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0
26	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
27	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0
28	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0
29	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0
30	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
PV	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0

STABILITY CLASS USING DT/DZ
DT 60-10M
WS 10M

CB-TRACT
TRAILER AA23
AUG 1981
OCCIDENTAL OIL SHALE, INC.

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	
1	()	()	()	()	()	()	()	()	()	()	()	()	()
2	()	()	()	()	()	()	()	()	()	()	()	()	()
3	()	()	()	()	()	()	()	()	()	()	()	()	()
4	F	F	F	F	F	F	F	D	C	B	B	B	B	B	B	C	B	C	D	E	F	F	F	F	F	
5	F	F	F	F	F	F	F	C	C	H	H	H	C	C	H	B	H	C	D	F	F	F	F	F	F	
6	F	F	F	F	F	F	F	B	A	A	B	B	B	B	B	C	D	D	E	E	E	E	E	E	E	
7	F	F	F	F	F	F	F	D	C	B	B	B	B	B	B	C	D	D	E	E	E	E	E	E	E	
8	F	F	F	F	F	F	F	D	C	B	B	B	B	B	B	C	D	D	E	E	E	E	E	E	E	
9	D	F	F	F	F	F	F	D	C	B	B	B	B	B	B	C	D	D	E	E	E	E	E	E	E	
10	D	F	F	F	F	F	F	D	C	B	B	B	B	B	B	C	D	D	E	E	E	E	E	E	E	
11	F	F	F	F	F	F	F	D	C	B	B	B	B	B	B	C	D	D	E	E	E	E	E	E	E	
12	F	F	F	F	F	F	F	D	C	B	B	B	B	B	B	C	D	D	E	E	E	E	E	E	E	
13	F	F	F	F	F	F	F	D	C	B	B	B	B	B	B	C	D	D	E	E	E	E	E	E	E	
14	F	F	F	F	F	F	F	D	C	B	B	B	B	B	B	C	D	D	E	E	E	E	E	E	E	
15	F	F	F	F	F	F	F	D	C	B	B	B	B	B	B	C	D	D	E	E	E	E	E	E	E	
16	F	F	F	F	F	F	F	D	C	B	B	B	B	B	B	C	D	D	E	E	E	E	E	E	E	
17	F	F	F	F	F	F	F	D	C	B	B	B	B	B	B	C	D	D	E	E	E	E	E	E	E	
18	F	F	F	F	F	F	F	D	C	B	B	B	B	B	B	C	D	D	E	E	E	E	E	E	E	
19	F	F	F	F	F	F	F	D	C	B	B	B	B	B	B	C	D	D	E	E	E	E	E	E	E	
20	F	F	F	F	F	F	F	D	C	B	B	B	B	B	B	C	D	D	E	E	E	E	E	E	E	
21	F	F	F	F	F	F	F	D	C	B	B	B	B	B	B	C	D	D	E	E	E	E	E	E	E	
22	F	F	F	F	F	F	F	D	C	B	B	B	B	B	B	C	D	D	E	E	E	E	E	E	E	
23	F	F	F	F	F	F	F	D	C	B	B	B	B	B	B	C	D	D	E	E	E	E	E	E	E	
24	F	F	F	F	F	F	F	D	C	B	B	B	B	B	B	C	D	D	E	E	E	E	E	E	E	
25	F	F	F	F	F	F	F	D	C	B	B	B	B	B	B	C	D	D	E	E	E	E	E	E	E	
26	()	()	()	()	()	()	()	()	()	()	()	()	()
27	F	F	F	F	F	F	F	D	C	B	B	B	B	B	B	C	D	D	E	E	E	E	E	E	E	
28	F	F	F	F	F	F	F	D	C	B	B	B	B	B	B	C	D	D	E	E	E	E	E	E	E	
29	F	F	F	F	F	F	F	D	C	B	B	B	B	B	B	C	D	D	E	E	E	E	E	E	E	
30	F	F	F	F	F	F	F	D	C	B	B	B	B	B	B	C	D	D	E	E	E	E	E	E	E	
31	F	F	F	F	F	F	F	D	C	B	B	B	B	B	B	C	D	D	E	E	E	E	E	E	E	
AVE	E	F	F	F	F	F	F	E	D	D	C	C	C	C	D	D	D	D	D	E	E	E	E	E	F	

TOTAL OCCURRENCES: A= 12 B= 55 C= 29 D=161 E=232 F=177 HOURS MISSING= 78

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

NITRIC OXIDE (NO)

C-B SHALE OIL PROJECT

PERIOD(8/01/81 TO 8/31/81)

TRAILER AB20

CONCENTRATION MAX UG/M**3	WIND DIRECTION										W				NNW CALM TOTAL			
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	2	2	2	2	2	6	2	1	1	1	2	1	1	1	1	1	2	
GT 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
20. - 30. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
10. - 20. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
LT 10. :	19	12	27	25	42	187	133	11	28	22	27	28	47	51	33	17	20 :	729
TOTAL :	19	12	27	25	42	187	133	11	28	22	27	28	47	51	33	17	20	729
MEAN CONC.	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0

0 = NO OBSERVATIONS

11435

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

NITRIC OXIDE (NO)

C-B SHALE OIL PROJECT

PERIOD(8/01/81 TO 8/31/81)

TRAILER

AB23

WIND DIRECTION

CONCENTRATION MAX UG/M**3	WIND DIRECTION																C-B SHALE OIL PROJECT			
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL		
GT 130. :	6	4	3	3	2	3	3	3	4	3	3	3	3	4	3	3	1			
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
20. - 30. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
10. - 20. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
LT 10. :	27	20	16	18	27	51	56	46	60	79	85	43	22	24	42	50	13	679		
TOTAL :	27	20	16	18	27	51	56	46	60	79	85	43	22	24	42	50	13	679		
MEAN CONC.	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0		

0 = NO OBSERVATIONS

111-30

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

OXIDES OF NITROGEN (NOX)

C-B SHALE OIL PROJECT

PERIOD(8/01/81 TO 8/31/81)

TRAILER AB20

WIND DIRECTION

CONCENTRATION MAX UG/M**3	WIND DIRECTION														TOTAL		
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW		NW	NNW	CALM
7	7	7	7	5	7	22	7	5	3	1	9	3	3	7	5	3	13

GT 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20. - 30. :	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
10. - 20. :	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	4
LT 10. :	19	12	27	27	25	42	183	133	11	28	22	27	28	47	51	33	17	19	19	724									
TOTAL :	19	12	27	27	25	42	187	133	11	28	22	27	28	47	51	33	17	20	729										
MEAN CONC.	0	1	2	2	1	1	2	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2	1			

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

OXIDES OF NITROGEN (NOX)

C-B SHALE OIL PROJECT

PERIOD(8/01/81 TO 8/31/81)

TRAILER AB23

WIND DIRECTION

CONCENTRATION MAX UG/M**3	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
	15	0	0	0	0	0	7	16	1	1	5	1	9	9	3	7	3	
GT 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20. - 30. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10. - 20. :	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2
LT 10. :	26	20	16	18	27	51	56	45	60	79	85	43	22	24	42	50	13	677
TOTAL :	27	20	16	18	27	51	56	46	60	79	85	43	22	24	42	50	13	679
MEAN CONC.	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

0 = NO OBSERVATIONS

II 1438

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

C-B SHALE OIL PROJECT

NITROGEN DIOXIDE (NO2)

TRAILER AB20 PERIOD(8/01/81 TO 8/31/81)

CONCENTRATION MAX UG/M**3	WIND DIRECTION																	
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
GT 130. :	7	3	5	3	7	15	3	3	1	1	5	1	1	5	3	1	9	
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20. - 30. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10. - 20. :	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
LT 10. :	19	12	27	25	42	186	133	11	28	22	27	28	47	51	33	17	20	728
TOTAL :	19	12	27	25	42	187	133	11	28	22	27	28	47	51	33	17	20	729
MEAN CONC.	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

NITROGEN DIOXIDE (NO2)

C-B SHALE OIL PROJECT

TRAILER AB23 PERIOD(8/01/81 TO 8/31/81)

CONCENTRATION MAX UG/M**3	WIND DIRECTION															
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
GT 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20. - 30. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10. - 20. :	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
LT 10. :	27	20	16	18	27	51	56	45	60	79	85	43	22	24	42	50
TOTAL :	27	20	16	18	27	51	56	46	60	79	85	43	22	24	42	50
MEAN CONC.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

0 = NO OBSERVATIONS

111440

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

OZONE (03)

C-B SHALE OIL PROJECT

PERIOD(8/01/81 TO 8/31/81)

TRAILER AB20

WIND DIRECTION

CONCENTRATION MAX UG/M#3	WIND DIRECTION																TOTAL			
	N	NNE	NE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NNW	CALM	TOTAL				
GT 260. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
240. - 260. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
220. - 240. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200. - 220. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180. - 200. :	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
160. - 180. :	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
140. - 160. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120. - 140. :	0	0	0	0	2	4	0	0	0	0	1	0	0	0	0	0	0	0	0	7
100. - 120. :	1	1	1	0	4	1	0	0	3	2	1	5	2	2	2	1	1	1	1	27
80. - 100. :	12	6	5	2	8	13	2	7	6	11	9	19	18	17	11	3	159			
60. - 80. :	3	2	3	7	6	33	3	6	10	0	4	11	16	7	2	6	142			
40. - 60. :	0	1	7	4	18	67	1	5	3	4	4	4	3	5	0	3	173			
20. - 40. :	0	1	3	3	4	49	2	4	0	6	8	0	0	0	0	3	110			
LT 20. :	0	0	4	4	0	5	2	5	0	3	0	0	0	0	0	3	28			
TOTAL :	16	11	23	21	36	173	10	27	22	26	27	40	41	31	15	19	649			
MEAN CONC.	86	76	55	52	61	51	55	56	82	63	66	87	86	83	89	56	63			

0 = NO OBSERVATIONS

111441

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

OZONE (03)

C-B SHALE OIL PROJECT

PERIOD(8/01/81 TO 8/31/81)

TRAILER AB23

WIND DIRECTION

CONCENTRATION MAX UG/M**3	N		NNE		NE		ENE		E		ESE		SE		SSE		S		SSW		SW		WSW		W		WNW		NW		NNW		CALM		TOTAL
	94	94	94	94	94	94	84	84	94	94	90	98	98	98	92	92	96	96	99	99	105	98	98	96	96	99	99	98	98	96	96	88			
GT 260. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
240. - 260. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
220. - 240. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
200. - 220. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
180. - 200. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
160. - 180. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
140. - 160. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
120. - 140. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
100. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
80. - 100. :	8	10	7	5	1	5	9	11	16	27	32	27	32	23	9	9	14	14	27	27	32	23	9	9	9	14	14	27	27	1	1	1	214	214	
60. - 80. :	13	7	8	9	18	34	34	24	27	41	33	41	33	16	6	9	18	18	15	15	33	16	6	6	6	9	18	15	15	8	8	8	320	320	
40. - 60. :	4	1	0	4	4	9	11	9	13	7	12	7	12	4	4	6	8	8	6	6	12	4	4	4	4	6	8	6	6	4	4	4	106	106	
20. - 40. :	0	1	0	0	2	3	2	2	4	4	6	4	6	0	3	0	2	2	2	4	6	0	3	3	3	0	2	2	2	1	1	1	32	32	
LT 20. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL :	25	19	15	18	25	51	56	46	60	79	85	79	85	43	22	24	42	42	50	79	85	43	22	22	69	71	71	71	71	76	62	14	674	674	
MEAN CONC.	74	76	76	69	65	65	68	69	68	72	72	72	72	77	69	71	71	76	71	71	76	77	69	71	71	76	71	76	71	76	62	14	674	71	

0 = NO OBSERVATIONS

11-442

C-B SHALE OIL PROJECT

CARBON MONOXIDE (CO)

TRAILER AB20 PERIOD(8/01/81 TO 8/31/81)

WIND DIRECTION

[illegible][illegible]

0 = NO OBSERVATIONS

11-443

(12/29/81-RPI)

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

CARBON MONOXIDE (CO)

C-B SHALE OIL PROJECT

TRAILER AB23 PERIOD(8/01/81 TO 8/31/81)

WIND DIRECTION

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
CONCENTRATION	344	344	344	344	344	459	574	804	689	574	574	919	574	344	344	344	344	
MAX	344	344	344	344	344	459	574	804	689	574	574	919	574	344	344	344	344	
UG/M**3	344	344	344	344	344	459	574	804	689	574	574	919	574	344	344	344	344	

GT 4000. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3750. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3500. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3250. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3000. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2750. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2500. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2250. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2000. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1750. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1500. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1250. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1000. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LT 1000. :	23	19	16	17	25	47	49	43	57	74	83	42	22	23	38	43	11	632
TOTAL :	23	19	16	17	25	47	49	43	57	74	83	42	22	23	38	43	11	632
MEAN CONC.	154	151	136	121	165	183	265	264	187	156	138	161	151	184	184	163	156	176

0 = NO OBSERVATIONS

11-1444

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

C-B SHALE OIL PROJECT

SULFUR DIOXIDE (SO2)

PERIOD(8/01/81 TO 8/31/81)

TRAILER AB20

CONCENTRATION MAX UG/M**3	WIND DIRECTION										W							TOTAL			
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL			
GT 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20. - 30. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10. - 20. :	1	0	0	1	0	0	0	0	0	0	2	2	4	3	2	0	0	0	0	0	15
LT 10. :	18	12	27	24	41	178	123	11	28	22	25	26	43	47	31	17	19	19	19	19	692
TOTAL :	19	12	27	25	41	178	123	11	28	22	27	28	47	50	33	17	19	19	19	19	707
MEAN CONC.	3	3	4	5	4	3	3	6	6	5	5	5	4	5	4	3	4	4	4	4	4

0 = NO OBSERVATIONS

II-445

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

C-B SHALE OIL PROJECT

SULFUR DIOXIDE (SO2)

PERIOD(8/01/81 TO 8/31/81)

TRAILER AB23

CONCENTRATION MAX UG/M**3	WIND DIRECTION																TOTAL			
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL		
GT 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	:	:	:
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	:	:	:
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	:	:	:
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	:	:	:
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	:	:	:
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	:	:	:
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	:	:	:
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	:	:	:
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	:	:	:
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	:	:	:
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	:	:	:
20. - 30. :	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	:	:	1
10. - 20. :	12	7	6	5	6	13	21	23	17	23	30	11	3	9	17	19	2	:	:	224
LT 10. :	15	13	10	13	21	38	35	22	43	46	48	30	19	15	25	31	11	:	:	435
TOTAL :	27	20	16	18	27	51	56	45	60	70	78	41	22	24	42	50	13	:	:	660
MEAN CONC.	8	7	7	7	7	7	8	8	7	7	7	6	6	7	8	7	5	:	:	7

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

HYDROGEN SULFIDE (H2S)

C-B SHALE OIL PROJECT

PERIOD(8/01/81 TO 8/31/81)

TRAILER AB23

CONCENTRATION MAX UG/M**3	WIND DIRECTION																		TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM		
GT 130. :	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20. - 30. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10. - 20. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
LT 10. :	27	20	16	18	27	51	56	46	60	79	85	43	22	24	42	50	14	680	
TOTAL :	27	20	16	18	27	51	56	46	60	79	85	43	22	24	42	50	14	680	
MEAN CONC.	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	

0 = NO OBSERVATIONS

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

10 METER LEVEL

C-B SHALE OIL PROJECT

STATION AB20 PERIOD(8/01/81 TO 8/31/81)

WIND DIRECTION

WIND SPEED MAX METERS/SEC	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	TOTAL
	4	3	1	1	4	5	4	4	4	4	4	3	6	7	5	4	0	

GT 11. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
8. - 11. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
5. - 8. :	0	0	0	0	3	0	0	0	0	0	0	1	1	1	1	0	0 :	6
3. - 5. :	3	1	0	0	8	16	30	1	7	7	4	2	20	10	8	1	0 :	118
1. - 3. :	9	7	14	11	18	129	82	7	20	10	15	18	22	33	16	13	0 :	424
LT 1. :	7	4	13	14	16	39	21	3	1	5	8	8	4	7	8	3	0 :	161
TOTAL :	19	12	27	25	42	187	133	11	28	22	27	28	47	51	33	17	0	709
PERCENT	3.	2.	4.	4.	6.	26.	19.	2.	4.	3.	4.	4.	7.	7.	5.	2.	0.	100.

0 = NO OBSERVATIONS

111111

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

10 METER LEVEL

C-B SHALE OIL PROJECT

STATION AA23 PERIOD(8/01/81 TO 8/31/81)

WIND SPEED MAX METERS/SEC	WIND DIRECTION																VAR	TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW		
GT 11. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
8. - 11. :	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	0 :	3
5. - 8. :	0	2	0	0	0	1	1	4	4	4	8	0	0	0	0	1	0 :	25
3. - 5. :	6	8	6	2	2	4	8	7	9	21	24	17	6	7	7	16	0 :	150
1. - 3. :	12	5	5	7	17	28	37	17	27	29	34	15	10	12	25	24	0 :	304
LT 1. :	9	5	5	9	8	18	10	18	20	24	19	10	6	5	9	9	0 :	184
TOTAL :	27	20	16	18	27	51	56	46	60	79	85	43	22	24	42	50	0	666
PERCENT	4.	3.	2.	3.	4.	8.	8.	7.	9.	12.	13.	6.	3.	4.	6.	8.	0.	100.

0 = NO OBSERVATIONS

11-449

(12/28/81-RPI)

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

30 METER LEVEL

C-B SHALE OIL PROJECT

STATION AA23 PERIOD(8/01/81 TO 8/31/81)

WIND DIRECTION

WIND SPEED MAX METERS/SEC	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	TOTAL
7	9	5	6	4	8	7	9	7	11	9	14	5	6	11	10	0		
GT 11. :	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0	0 :	3
8. - 11. :	0	1	0	0	0	1	0	3	0	2	3	0	0	0	0	1	0 :	11
5. - 8. :	4	2	4	2	0	2	6	6	8	29	12	5	1	3	2	4	0 :	90
3. - 5. :	10	5	4	4	4	20	11	16	8	21	18	14	7	9	22	15	0 :	188
1. - 3. :	11	3	5	8	24	33	33	19	16	22	12	13	11	12	19	15	0 :	256
LT 1. :	8	5	9	7	13	7	6	11	11	7	10	5	4	2	8	8	0 :	121
TOTAL :	33	16	22	21	41	63	56	55	43	82	55	38	23	26	52	43	0	669
PERCENT	5.	2.	3.	3.	6.	9.	8.	8.	6.	12.	8.	6.	3.	4.	8.	6.	0.	100.

0 = NO OBSERVATIONS

II-450

(12/28/81-RPI)

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

60 METER LEVEL

C-B SHALE OIL PROJECT

STATION AA23 PERIOD(8/01/81 TO 8/31/81)

WIND DIRECTION

WIND SPEED MAX METERS/SEC	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	TOTAL
GT 11. :	0	0	0	0	0	0	0	1	1	0	2	1	1	0	1	0	0 :	7
8. - 11. :	0	0	1	0	0	0	2	3	5	3	7	1	0	0	0	1	0 :	23
5. - 8. :	2	3	3	5	3	2	5	9	4	21	32	8	2	2	3	9	0 :	113
3. - 5. :	8	10	3	2	4	8	22	18	12	17	15	15	8	14	15	25	0 :	196
1. - 3. :	11	6	3	7	12	17	31	19	19	22	16	9	19	8	20	12	0 :	231
LT 1. :	7	6	8	3	10	5	11	10	9	4	6	8	4	3	6	5	0 :	105
TOTAL :	28	25	18	17	29	32	71	60	50	67	78	42	34	27	45	52	0	675
PERCENT	4.	4.	3.	3.	4.	5.	11.	9.	7.	10.	12.	6.	5.	4.	7.	8.	0.	100.

0 = NO OBSERVATIONS

II-451

(12/28/81-RPI)

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

10 METER LEVEL

C-B SHALE OIL PROJECT

STATION AD42 PERIOD 8/1/81 - 8/31/81

Refer to pages II-465 through II-501

Mechanical Recordering Instrument was removed and replaced by an R.A. solar powered data acquisition system installed July 25,1981. Monitoring of data and maintenance of the instrumentation was contracted to WestAq Corp. upon purchase of the equipment.

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

C-B SHALE OIL PROJECT

10 METER LEVEL

STATION AD56 PERIOD 8/1/81 - 8/31/81

DATA NOT AVAILABLE AT REPORT TIME

C-R TRACT
SITE AR20
AUG 1981
OCCIDENTAL OIL SHALE, INC.

FIVE MAXIMUM SLIDING AVERAGE
UG/M**3

COMPONENT	AVG. TIME	RANK	DAY	HOUR (BEG)	VALUE
S02	3 HR	1	27	9	10.5
		2	27	12	10.5
		3	27	15	10.5
		4	28	18	9.6
		5	29	16	9.6
S02	24 HR	1	26	19	8.9
		2	28	19	8.3
		3	25	12	7.9
		4	27	19	7.9
		5	29	19	7.9
C0	1 HR	1	27	11	1800.0
		2	27	12	1800.0
		3	2	22	1100.0
		4	2	21	1000.0
		5	2	23	1000.0
C0	8 HR	1	27	10	1100.0
		2	2	19	1000.0
		3	27	18	800.0
		4	3	3	800.0
		5	28	2	700.0
03	1 HR	1	7	11	182.5
		2	7	10	174.6
		3	7	9	166.8
		4	1	14	125.6
		5	1	12	123.6
PART	24 HR	1	7	1	61.1
		2	4	1	37.2
		3	19	1	34.0
		4	25	1	21.0
		5	16	1	20.1

FIVE MAXIMUM SLIDING AVERAGE
UG/MSS3

C-8 TRACT
SITE AH23
AUG 1981
OCCIDENTAL OIL SHALE, INC.

COMPONENT	AVG. TIME	RANK	DAY	HOUR (BEG)	VALUE
S02	3 HR	1	13	13	14.3
		2	13	16	14.3
		3	14	4	14.3
		4	14	7	14.3
		5	13	24	17.5
S02	24 HR	1	13	10	17.3
		2	12	10	14.6
		3	11	10	12.8
		4	30	1	11.2
		5	28	9	10.7
C0	1 HR	1	15	14	900.0
		2	30	2	800.0
		3	30	3	800.0
		4	30	4	700.0
		5	30	5	700.0
C0	8 HR	1	30	2	700.0
		2	30	10	600.0
		3	15	7	600.0
		4	30	18	500.0
		5	14	20	500.0
03	1 HR	1	30	15	105.9
		2	30	16	104.0
		3	23	13	100.1
		4	30	12	100.1
		5	30	14	100.1
PART	24 HR	1	7	1	46.2
		2	4	1	56.9
		3	19	1	36.9
		4	16	1	29.8
		5	28	1	27.4

FIVE MAXIMUM SLIDING AVERAGE
 UG/M**3

C-B TRACT
 SITE AD56
 AUG 1981
 OCCIDENTAL OIL SHALE, INC.

COMPONENT	AVG. TIME	RANK	DAY	HOUR(BEG)	VALUE
PART	24 HR				
		1	7	1	30.4
		2	19	1	23.1
		3	4	1	21.5
		4	25	1	20.1
		5	22	1	17.8

SOURCE OF DATA REPORTED
PERCENT

C-b TRACT
TRAILER AB20
August 1981
OCCIDENTAL OIL SHALE, INC.

	NO	NO _x	NO ₂	O ₃	CO	SO ₂
MULTIPOINT RECORDER *				89		
DATA ACQUISITION SYSTEM	98	98	98		98	95
OTHER SYSTEMS						
EFFICIENCY	98	98	98	89	98	95

* Serves as Back-up to Data Acquisition System

SOURCE OF DATA REPORTED
PERCENT

C-b TRACER
TRAILER B20
August 1981
OCCIDENTAL OIL SHALE, INC.

	WS	WD	SIGMA HWD 10m	TEMP	INVERS. HT	STB 50m	STB 200m	PART	PRECIP.
MULTIPOINT RECORDER *									
DATA ACQUISITION SYSTEM	98	98	98	98					
OTHER SYSTEMS					90	90	90	100	100
EFFICIENCY	98	98	98	98	90	90	90	100	100

* Serves as Back-up to Data Acquisition

SOURCE OF DATA REPORTED
PERCENT

C-b TRACT
TRAILER AB23
August 1981
OCCIDENTAL OIL SHALE, INC.

NO	NO _x	NO ₂	O ₃	SO ₂	H ₂ S	CO	BAR PRESS.	SOLAR RAC.
----	-----------------	-----------------	----------------	-----------------	------------------	----	---------------	---------------

MULTIPOINT
RECORDER *

DATA ACQUISITION SYSTEM	100	100	100	92	89	92	85	92
----------------------------	-----	-----	-----	----	----	----	----	----

OTHER SYSTEMS

EFFICIENCY	100	100	100	92	89	92	85	92
------------	-----	-----	-----	----	----	----	----	----

* Serves as Back-up to Data Acquisition System

SOURCE OF DATA REPORTED
PERCENT

C-b TRACT
TRAILER AB23
August 1981
OCCIDENTAL OIL SHALE, INC.

	TMP 10m	TMP 30m	TMP 60m	DT 60-10m	RH	PART	PREC
--	------------	------------	------------	--------------	----	------	------

MULTIPOINT
RECORDER *

DATA ACQUISITION
SYSTEM

	92	92	92	92			
--	----	----	----	----	--	--	--

OTHER SYSTEMS

					84	100	95
--	--	--	--	--	----	-----	----

EFFICIENCY

	92	92	92	92	84	100	95
--	----	----	----	----	----	-----	----

* Serves as Back-up to Data Acquisition System

SOURCE OF DATA REPORTED
PERCENT

C-bTRACT
TRAILER AB23
August 1981
OCCIDENTAL OIL SHALE, INC.

SIGMA HWD 10m	SIGMA HWD 30m	SIGMA HWD 60m	WS 10m	WS 30m	WS 60m	WD 10m	WD 30m	WD 60m
------------------	------------------	------------------	-----------	-----------	-----------	-----------	-----------	-----------

MULTIPOINT
RECORDER *

DATA ACQUISITION
SYSTEM

92	92	92	92	92	92	92	92	92
----	----	----	----	----	----	----	----	----

OTHER SYSTEMS

EFFICIENCY

92	92	92	92	92	92	92	92	92
----	----	----	----	----	----	----	----	----

*Serves as Back-up to Data Acquisition System

SOURCE OF DATA REPORTED
PERCENT

WS 10m	WD 10m	TMP 10m	SOLAR RAD
100	100	100	100

OTHER SYSTEMS

EFFICIENCY

C-b TRACT
SITE AD42
August, 1981
OCCIDENTAL OIL SHALE, INC.

SOURCE OF DATA REPORTED
PERCENT

C-b TRACT
SITE AD56
August 1981
OCCIDENTAL OIL SHALE, INC.

WS	WD	TMP	PART
10m	10m	10m	

OTHER SYSTEMS

100

EFFICIENCY

100

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DATA REPORT

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK, COLORADO

Met. Station #1
(AD42)

August 1981

PREPARED FOR:

Ed B. Baker
Project Environmental Coordinator
Occidental Oil Shale, Inc.
Star Route
Rifle, Colorado

PREPARED BY:

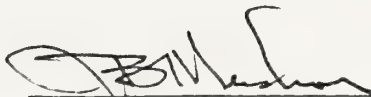
WestAq Corporation
Parachute, Colorado
(303) 285-7700

DATA CERTIFICATION STATEMENT

WESTAQ CORPORATION HEREBY CERTIFIES THAT ALL DATA PRESENTED IN THIS REPORT IS ACCURATE TO THE SPECIFICATIONS OF THE RECORDING INSTRUMENTATION. NO EDITING OR ALTERATION HAS BEEN PERFORMED OTHER THAN TO CORRECT OCCASIONAL COSMETIC DETAILS. ALL CALCULATIONS ARE DONE BY COMPUTER PROGRAM AND NOT SUBJECT TO OPERATOR ERRORS.

DUE TO THE NATURE OF THE DIGITAL ACQUISITION SYSTEM AND COMPUTER REDUCTION, MINIMUM POSSIBILITY EXISTS FOR CHART INTERPRETATIONS, MACHINE ENTRY AND CALCULATION ERRORS, OR ARBITRARY DATA ALTERATION.

FOR THE CORPORATION:

 7/8.81
James B. Mershon, Vice Pres.

SYSTEM PERFORMANCE

NO DATA LOSS OR ANY ERRORS DETECTED.

THIS PERIOD REPRESENTS 100% DATA RECORDING
AND RETRIEVAL.

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

WIND ROSE VALUES

^^^^^^^^^^^^^^ NUMBER OF OCCURRENCES: ^^^^^^^^^^^^^^

	<3	3-7	7-12	>12MPH	
N	6	21	4	2	(33)
N N E	13	13	11	2	(39)
N E	12	24	5	2	(43)
E N E	26	82	12	1	(121)
E	20	71	26	3	(120)
E S E	14	30	13	2	(59)
S E	6	20	10	1	(37)
S S E	5	9	7	10	(31)
S	8	4	10	5	(27)
S S W	4	8	13	11	(36)
S W	4	9	19	5	(37)
W S W	4	7	7	6	(24)
W	5	6	14	10	(35)
W N W	11	16	10	7	(44)
N W	7	8	16	4	(35)
N N W	7	7	7	2	(23)

(152)(335)(184)(73)

%% ^^^^^^^^^^^^^^ PERCENTAGES OF OCCURRENCES: ^^^^^^^^^^^^^^ %%

	<3	3-7	7-12	>12MPH	
N	0.8	2.8	0.5	0.3	(4.4)
N N E	1.7	1.7	1.5	0.3	(5.2)
N E	1.6	3.2	0.7	0.3	(5.8)
E N E	3.5	11.0	1.6	0.1	(16.3)
E	2.7	9.5	3.5	0.4	(16.1)
E S E	1.9	4.0	1.7	0.3	(7.9)
S E	0.8	2.7	1.3	0.1	(5.0)
S S E	0.7	1.2	0.9	1.3	(4.2)
S	1.1	0.5	1.3	0.7	(3.6)
S S W	0.5	1.1	1.7	1.5	(4.8)
S W	0.5	1.2	2.6	0.7	(5.0)
W S W	0.5	0.9	0.9	0.8	(3.2)
W	0.7	0.8	1.9	1.3	(4.7)
W N W	1.5	2.2	1.3	0.9	(5.9)
N W	0.9	1.1	2.2	0.5	(4.7)
N N W	0.9	0.9	0.9	0.3	(3.1)

(20.4)(45.0)(24.7)(9.8)

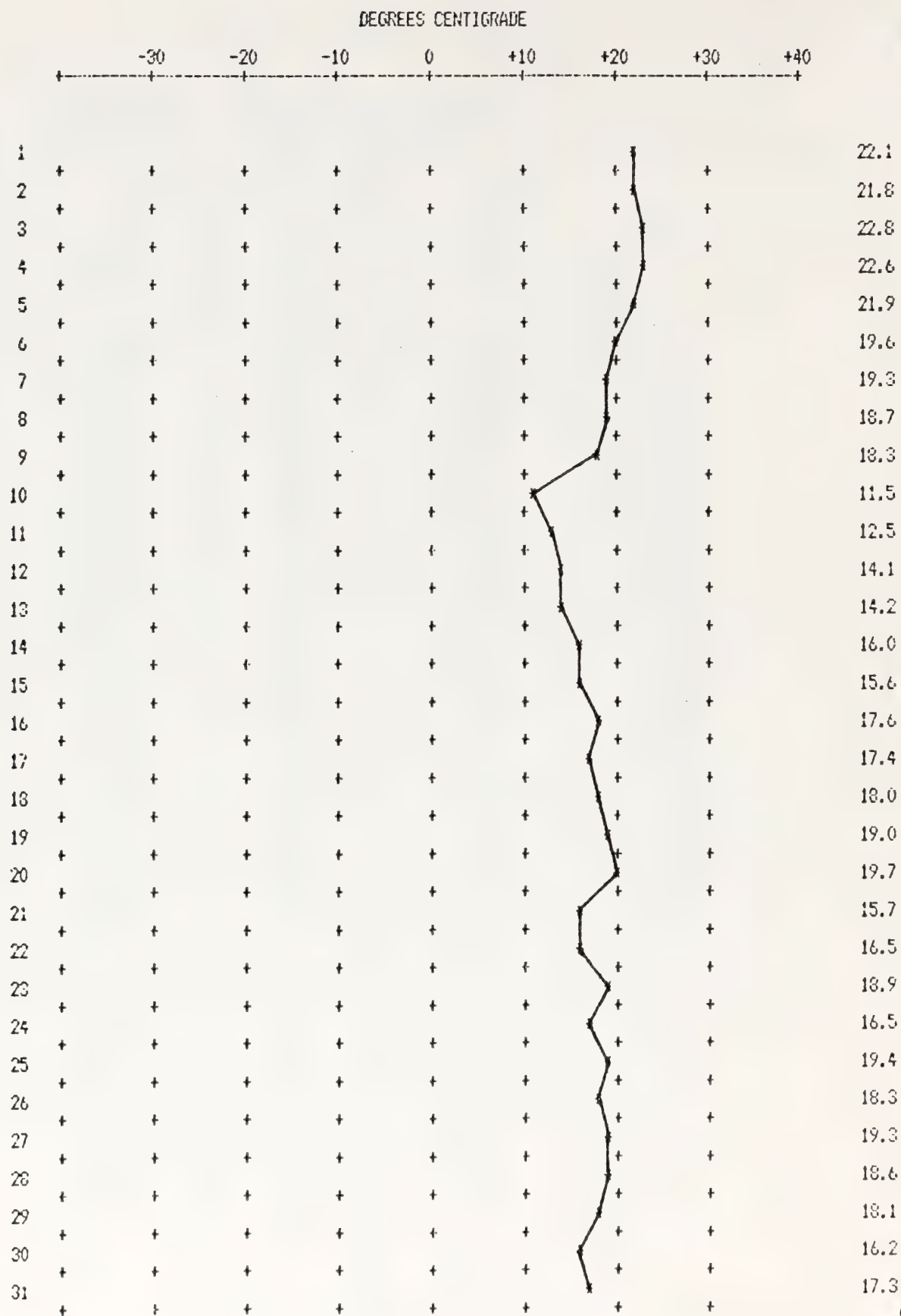
FROM 213 0 THRU 243 2300 FOR 744 SAMPLES IN AUGUST 1981

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	5.1	85	13.0	0.00
100	5.0	94	12.4	0.00
200	4.2	98	11.7	0.00
300	4.9	112	11.4	0.00
400	3.6	93	10.4	0.00
500	4.5	101	10.3	0.00
600	4.1	112	10.6	0.03
700	3.8	101	13.5	0.21
800	4.4	139	17.8	0.42
900	5.4	182	20.9	0.63
1000	7.0	225	22.6	0.80
1100	7.7	217	23.0	0.85
1200	7.4	199	24.3	0.84
1300	9.3	209	24.3	0.78
1400	8.9	206	25.0	0.71
1500	8.8	236	25.0	0.57
1600	9.8	207	24.9	0.39
1700	9.2	217	23.4	0.27
1800	7.9	133	22.4	0.10
1900	6.6	149	20.8	0.01
2000	6.2	144	18.7	0.00
2100	4.8	114	16.2	0.00
2200	4.2	115	14.8	0.00
2300	4.7	95	13.7	0.00
MAX	22.4	357	32.8	1.37
MIN	0.0	1	2.8	0.00
AVG	6.1	149	18.0	0.28
	MPH	DEG	CENT	LGly

~~~~~  
-> -> -> -> -> -> -> MONTHLY AVERAGE FOR AUGUST 1981  
~~~~~



CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	8.3	78	20.1	0.00
100	8.3	20	20.5	0.00
200	2.9	7	21.3	0.00
300	0.9	191	21.0	0.00
400	1.3	134	20.1	0.00
500	9.0	141	18.8	0.00
600	6.0	130	18.0	0.02
700	5.7	141	19.0	0.16
800	5.7	189	22.2	0.24
900	10.7	161	23.0	0.34
1000	0.4	191	23.8	0.53
1100	9.3	211	22.1	0.99
1200	13.9	166	27.9	0.84
1300	8.4	100	28.1	1.19
1400	7.2	193	26.1	0.30
1500	9.0	224	27.2	0.41
1600	6.4	252	26.6	0.14
1700	10.6	230	25.2	0.08
1800	6.5	221	25.5	0.15
1900	9.2	95	22.2	0.03
2000	14.0	89	20.1	0.00
2100	6.1	130	19.4	0.00
2200	1.7	155	16.8	0.00
2300	4.6	38	15.4	0.00
MAX	14.0	252	28.1	1.19
MIN	0.4	7	15.4	0.00
AVG	6.9	145	22.1	0.23
	MPH	DEG	CENT	LGLY

1 AUG. '81 (213)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	5.3	48	13.3	0.00
100	6.5	80	12.1	0.00
200	7.2	71	11.4	0.00
300	2.8	80	12.1	0.00
400	3.1	87	11.6	0.00
500	4.7	67	10.1	0.00
600	4.3	66	11.7	0.03
700	4.7	61	16.6	0.32
800	6.1	56	20.9	0.56
900	3.2	320	25.7	0.77
1000	3.7	24	29.3	0.54
1100	10.3	69	27.7	1.15
1200	6.0	85	30.6	1.26
1300	9.8	213	30.9	1.24
1400	13.1	141	32.1	1.19
1500	4.1	289	31.6	0.56
1600	5.3	218	31.3	0.31
1700	8.2	251	30.4	0.46
1800	9.1	6	29.7	0.21
1900	6.7	233	27.8	0.04
2000	5.1	203	24.4	0.01
2100	4.1	50	19.5	0.00
2200	0.8	4	16.7	0.00
2300	1.7	131	15.6	0.00
MAX	13.1	320	32.1	1.26
MIN	0.8	4	10.1	0.00
AVG	5.7	119	21.8	0.36
	MPH	DEG	CENT	LG/LY

2 AUG. '81 (214)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	1.4	54	15.1	0.00
100	2.8	102	14.2	0.00
200	6.6	85	14.5	0.00
300	11.8	133	15.6	0.00
400	3.9	63	11.5	0.00
500	5.8	81	11.8	0.00
600	5.8	80	13.4	0.06
700	2.3	51	17.0	0.07
800	2.9	27	24.4	0.56
900	7.1	91	28.6	0.76
1000	7.0	190	29.6	0.95
1100	9.4	209	30.0	1.17
1200	10.3	220	30.6	1.23
1300	7.1	117	30.9	1.16
1400	9.7	185	31.5	1.03
1500	11.2	190	32.1	0.44
1600	15.9	154	31.1	0.71
1700	14.3	212	30.3	0.46
1800	9.3	235	29.6	0.20
1900	9.9	232	27.6	0.04
2000	8.9	188	24.8	0.00
2100	5.3	90	19.6	0.00
2200	2.9	73	16.9	0.00
2300	4.3	87	15.5	0.00
MAX	15.9	235	32.1	1.23
MIN	1.4	27	11.5	0.00
AVG	7.3	131	22.8	0.37
	MPH	DEG	CENT	LGLY

3 AUG. '81 (215)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	2.9	82	15.1	0.00
100	4.7	67	13.4	0.00
200	4.3	79	14.8	0.00
300	3.9	74	14.1	0.00
400	3.0	84	12.1	0.00
500	7.0	103	13.5	0.00
600	4.9	100	13.5	0.02
700	5.5	76	17.3	0.32
800	13.1	188	25.8	0.37
900	12.4	238	26.9	0.77
1000	5.0	204	28.4	0.97
1100	14.8	256	28.3	1.30
1200	10.1	230	31.3	1.21
1300	12.6	271	29.4	1.10
1400	11.9	191	30.7	1.00
1500	12.4	241	31.1	0.88
1600	7.3	311	30.6	0.73
1700	7.0	193	31.2	0.46
1800	18.1	247	29.6	0.20
1900	6.7	27	28.0	0.05
2000	9.1	196	24.7	0.00
2100	4.4	58	20.2	0.01
2200	2.0	165	17.3	0.00
2300	4.1	84	15.6	0.00
MAX	18.1	311	31.3	1.30
MIN	2.0	27	12.1	0.00
AVG	7.8	157	22.6	0.39
	MPH	DEG	CENT	LGLY

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	5.3	71	12.1	0.00
100	2.3	119	15.8	0.00
200	2.5	55	11.2	0.00
300	4.4	75	10.7	0.00
400	3.9	83	5.2	0.00
500	1.0	48	7.5	0.00
600	4.2	62	9.4	0.05
700	4.0	52	14.3	0.33
800	2.6	58	21.6	0.50
900	0.4	341	27.3	0.78
1000	5.5	96	29.6	0.96
1100	1.6	270	31.1	1.06
1200	9.1	148	31.3	1.12
1300	8.8	150	32.8	1.03
1400	10.2	260	32.2	1.00
1500	1.0	278	31.0	0.88
1600	13.7	265	32.8	0.68
1700	8.9	261	31.9	0.47
1800	4.6	203	31.7	0.19
1900	9.4	234	29.5	0.04
2000	3.8	357	25.4	0.00
2100	2.3	87	19.7	0.01
2200	5.1	81	16.5	0.00
2300	2.6	19	14.6	0.00
MAX	13.7	357	32.8	1.12
MIN	0.4	19	5.2	0.00
AVG	4.9	153	21.9	0.38
	MPH	DEG	CENT	LG/LY

5 AUG. '81 (217)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	4.1	4	16.8	0.00
100	4.6	101	12.7	0.00
200	4.1	59	10.6	0.00
300	3.3	74	10.1	0.00
400	3.4	77	8.5	0.00
500	5.5	86	8.5	0.00
600	2.0	86	8.5	0.02
700	3.0	74	12.7	0.33
800	1.7	326	17.5	0.56
900	4.8	313	19.1	0.73
1000	5.7	322	22.3	0.92
1100	5.4	266	24.1	1.05
1200	11.2	292	27.3	1.11
1300	6.5	322	29.2	1.09
1400	7.5	311	29.5	1.00
1500	5.5	289	30.3	0.86
1600	11.6	31	29.9	0.67
1700	8.6	348	24.4	0.44
1800	10.4	17	27.4	0.14
1900	6.5	7	26.1	0.03
2000	5.5	71	22.5	0.00
2100	5.2	111	20.8	0.01
2200	4.2	134	19.6	0.01
2300	1.3	104	12.8	0.00
MAX	11.6	348	30.3	1.11
MIN	1.3	4	8.5	0.00
AVG	5.5	159	19.6	0.37
	MPH	DEG	CENT	LGLY

6 AUG. '81 (218)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	1.7	13	12.8	0.00
100	4.1	99	12.0	0.00
200	3.7	74	11.8	0.00
300	2.2	72	9.5	0.00
400	1.5	69	8.4	0.00
500	4.0	67	7.4	0.00
600	1.6	64	8.3	0.02
700	3.3	74	13.2	0.32
800	1.8	263	18.6	0.54
900	1.8	107	20.5	0.29
1000	5.9	309	22.4	0.93
1100	12.1	335	24.8	1.04
1200	3.5	356	27.1	1.10
1300	7.1	304	28.3	1.09
1400	13.2	318	27.1	1.02
1500	12.1	291	26.7	0.86
1600	6.1	287	27.9	0.67
1700	16.4	319	26.9	0.44
1800	14.6	25	25.8	0.18
1900	7.7	26	24.8	0.03
2000	7.7	17	22.0	0.00
2100	5.6	50	21.5	0.01
2200	5.5	137	19.2	0.00
2300	1.8	3	15.7	0.00
MAX	16.4	356	28.3	1.10
MIN	1.5	3	7.4	0.00
AVG	6.0	153	19.3	0.36
	MPH	DEG	CENT	LGLY

7 AUG. '81 (219)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	2.2	82	11.5	0.00
100	4.2	81	9.9	0.00
200	2.2	62	8.8	0.00
300	6.0	71	5.5	0.00
400	3.7	60	8.1	0.00
500	3.3	73	7.9	0.00
600	2.5	63	9.0	0.03
700	0.2	299	14.3	0.31
800	0.2	285	20.2	0.50
900	4.4	352	21.2	0.35
1000	5.0	258	22.7	0.93
1100	4.0	326	23.0	0.98
1200	5.9	292	22.1	0.65
1300	10.9	235	25.3	1.04
1400	5.9	292	26.7	0.52
1500	9.4	305	28.1	0.70
1600	13.4	264	27.6	0.16
1700	10.7	323	27.1	0.33
1800	4.3	25	26.2	0.07
1900	2.1	28	24.4	0.01
2000	7.8	148	21.8	0.00
2100	4.3	99	18.9	0.01
2200	15.5	320	19.6	0.01
2300	12.9	37	19.4	0.01
MAX	15.5	352	28.1	1.04
MIN	0.2	25	5.5	0.00
AVG	5.9	183	18.7	0.28
	MPH	DEG	CENT	LGLY

8 AUG. '81 (220)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	7.1	86	19.1	0.01
100	4.5	263	18.2	0.01
200	5.3	256	15.3	0.00
300	8.1	225	13.6	0.00
400	0.8	60	11.4	0.00
500	0.4	77	9.7	0.00
600	3.2	353	11.1	0.05
700	1.4	38	14.2	0.30
800	4.8	294	15.7	0.43
900	11.3	263	17.5	0.64
1000	9.4	301	19.4	0.90
1100	11.0	302	21.4	1.03
1200	9.1	311	23.9	1.08
1300	9.2	285	23.9	1.08
1400	9.7	241	26.0	1.10
1500	12.3	356	24.6	0.91
1600	11.6	333	23.9	0.51
1700	10.2	3	22.4	0.52
1800	6.9	29	22.2	0.17
1900	8.8	24	20.8	0.01
2000	9.9	357	18.5	0.01
2100	4.2	326	16.8	0.00
2200	8.3	296	15.0	0.00
2300	10.2	282	14.1	0.00
MAX	12.3	357	26.0	1.10
MIN	0.4	3	9.7	0.00
AVG	7.4	223	18.3	0.37
	MPH	DEG	CENT	LGLY

9 AUG. '81 (221)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	2.4	239	13.5	0.00
100	11.2	142	11.6	0.00
200	2.7	315	10.7	0.00
300	4.5	135	10.0	0.00
400	4.9	38	8.3	0.00
500	4.4	92	7.5	0.00
600	8.0	340	7.7	0.03
700	2.9	173	10.2	0.12
800	13.4	284	11.8	0.29
900	11.5	200	12.4	0.23
1000	6.6	294	13.5	0.51
1100	5.5	285	14.6	0.20
1200	1.5	51	17.1	0.46
1300	8.5	307	13.2	0.03
1400	1.8	203	11.1	0.07
1500	4.2	130	11.3	0.18
1600	6.2	56	11.1	0.16
1700	7.1	104	11.7	0.11
1800	4.8	90	12.1	0.07
1900	2.6	171	12.1	0.02
2000	3.6	168	12.0	0.00
2100	2.6	95	11.0	0.00
2200	1.5	151	10.9	0.00
2300	1.5	164	9.9	0.00
MAX	13.4	340	17.1	0.51
MIN	1.5	38	7.5	0.00
AVG	5.2	179	11.5	0.11
	MPH	DEG	CENT	LGLY

10 AUG. '81 (222)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	4.1	21	9.1	0.00
100	5.0	83	8.1	0.00
200	2.5	101	8.1	0.00
300	2.3	329	8.1	0.00
400	3.6	62	7.4	0.00
500	5.1	107	8.4	0.00
600	5.2	121	9.4	0.01
700	0.7	295	10.3	0.13
800	1.1	257	12.1	0.36
900	1.7	9	12.7	0.37
1000	2.0	288	13.3	0.32
1100	2.2	301	14.7	0.25
1200	0.2	12	15.7	0.31
1300	1.6	76	16.6	0.23
1400	5.1	217	16.7	0.19
1500	5.3	298	16.2	0.18
1600	3.1	354	15.9	0.25
1700	4.8	294	15.7	0.12
1800	3.5	302	15.5	0.06
1900	3.0	237	14.4	0.01
2000	3.3	260	14.5	0.01
2100	1.8	284	12.4	0.00
2200	6.5	70	12.0	0.00
2300	5.2	115	12.7	0.00
MAX	6.5	354	16.7	0.37
MIN	0.2	9	7.4	0.00
AVG	3.3	187	12.5	0.12
	MPH	DEG	CENT	LGGLY

11 AUG. '81 (223)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	3.7	126	12.4	0.00
100	2.4	81	11.8	0.00
200	1.4	80	10.2	0.00
300	2.8	146	10.7	0.00
400	2.6	133	10.3	0.00
500	1.0	183	8.7	0.00
600	2.6	97	8.4	0.02
700	2.7	66	9.3	0.17
800	3.6	90	13.8	0.33
900	2.2	15	16.3	0.48
1000	2.7	93	20.9	0.95
1100	2.3	220	18.8	0.23
1200	7.6	271	19.7	0.31
1300	4.7	218	21.0	0.66
1400	5.4	213	20.7	0.23
1500	10.5	323	22.2	0.49
1600	7.2	19	19.9	0.28
1700	16.0	209	14.2	0.04
1800	2.8	63	12.6	0.03
1900	3.2	130	12.6	0.01
2000	2.4	330	11.4	0.00
2100	9.6	151	11.4	0.00
2200	1.3	75	10.6	0.00
2300	4.8	88	10.5	0.00
MAX	16.0	330	22.2	0.95
MIN	1.0	15	8.4	0.00
AVG	4.4	143	14.1	0.18
	MPH	DEG	CENT	LGLY

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	9.8	133	10.9	0.00
100	3.7	94	9.3	0.00
200	5.1	95	9.7	0.00
300	3.4	79	9.3	0.00
400	2.1	104	9.6	0.00
500	4.2	329	9.8	0.00
600	3.9	77	9.9	0.01
700	5.0	78	11.1	0.12
800	3.0	71	13.6	0.18
900	10.0	206	17.9	0.53
1000	15.2	160	19.6	0.73
1100	8.7	242	19.0	0.39
1200	2.6	181	15.6	0.11
1300	13.8	210	19.7	0.34
1400	11.8	216	20.9	0.23
1500	9.0	336	18.4	0.09
1600	6.7	297	18.8	0.12
1700	5.1	349	13.6	0.09
1800	11.1	263	17.2	0.01
1900	2.0	345	13.6	0.00
2000	2.1	85	12.6	0.00
2100	7.3	123	12.3	0.00
2200	3.3	148	11.9	0.00
2300	7.3	104	12.3	0.00
MAX	15.2	349	20.9	0.73
MIN	2.0	71	9.3	0.00
AVG	6.5	180	14.2	0.12
	MPH	DEG	CENT	LGLY

13 AUG. '81 (225)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	4.3	63	12.1	0.00
100	5.0	73	12.1	0.00
200	5.0	104	10.7	0.00
300	0.2	66	11.3	0.00
400	3.2	124	11.7	0.00
500	4.8	71	10.6	0.00
600	0.9	82	11.2	0.06
700	3.2	78	11.8	0.11
800	3.4	99	16.9	0.41
900	5.3	166	15.5	0.57
1000	11.7	268	19.0	0.06
1100	10.7	73	15.1	0.14
1200	4.4	125	14.7	0.20
1300	3.3	11	16.9	0.25
1400	1.1	211	23.3	1.09
1500	4.3	327	22.0	0.93
1600	8.3	313	22.5	0.52
1700	3.2	296	22.1	0.18
1800	1.5	12	21.9	0.09
1900	2.7	142	20.6	0.00
2000	6.1	154	19.9	0.00
2100	3.4	116	15.1	0.00
2200	3.3	67	13.7	0.00
2300	6.1	107	13.5	0.00
MAX	11.7	327	23.3	1.09
MIN	0.2	11	10.6	0.00
AVG	4.4	131	16.0	0.19
	MPH	DEG	CENT	LGLY

14 AUG. 1981 (226)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	5.8	106	11.8	0.00
100	4.0	87	10.7	0.00
200	3.6	73	11.2	0.00
300	2.3	31	10.2	0.00
400	4.2	68	10.5	0.00
500	5.6	134	12.4	0.00
600	5.7	89	11.4	0.02
700	3.0	124	13.2	0.13
800	4.0	99	13.8	0.39
900	3.5	15	20.0	0.45
1000	8.0	208	20.7	0.49
1100	5.0	76	24.3	1.02
1200	5.0	157	25.6	1.32
1300	9.2	241	19.4	0.05
1400	8.9	200	17.9	0.06
1500	8.7	207	17.7	0.06
1600	12.2	87	17.6	0.22
1700	8.2	110	18.6	0.17
1800	2.6	109	18.8	0.05
1900	4.0	107	17.6	0.01
2000	5.4	142	16.0	0.00
2100	5.1	59	12.5	0.00
2200	3.4	66	11.5	0.00
2300	5.4	92	11.4	0.00
MAX	12.2	241	25.6	1.32
MIN	2.3	15	10.2	0.00
AVG	5.5	112	15.6	0.19
	MPH	DEG	CENT	LGLY

15 AUG. '81 (227)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	5.5	101	11.4	0.00
100	5.0	79	11.2	0.00
200	6.2	102	11.0	0.00
300	5.1	92	10.6	0.00
400	2.3	99	10.4	0.00
500	7.2	125	11.8	0.00
600	1.3	194	11.5	0.03
700	1.3	35	11.9	0.17
800	1.5	91	14.8	0.20
900	1.0	1	20.8	0.68
1000	9.6	273	20.7	0.83
1100	10.4	286	22.8	1.03
1200	2.4	327	24.2	1.07
1300	14.1	288	24.6	1.08
1400	13.9	280	27.1	1.01
1500	3.8	357	27.0	0.87
1600	11.1	305	25.6	0.16
1700	12.0	333	23.0	0.44
1800	10.0	47	22.9	0.19
1900	9.6	100	20.3	0.01
2000	3.0	117	17.8	0.00
2100	1.7	310	15.3	0.00
2200	4.1	52	13.1	0.00
2300	5.1	82	12.3	0.00
MAX	14.1	357	27.1	1.08
MIN	1.0	1	10.4	0.00
AVG	6.1	170	17.6	0.32
	MPH	DEG	CENT	LOLY

16 AUG. '81 (228)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	6.0	114	12.8	0.00
100	6.6	89	10.0	0.00
200	0.2	124	8.8	0.00
300	1.3	53	8.5	0.00
400	1.0	90	8.5	0.00
500	4.2	51	2.8	0.00
600	2.4	107	3.6	0.03
700	4.7	74	11.8	0.32
800	2.4	25	17.0	0.41
900	5.0	353	21.2	0.68
1000	6.7	331	22.4	0.94
1100	3.2	255	23.3	0.96
1200	12.2	60	25.2	1.02
1300	15.4	230	25.5	0.98
1400	12.8	17	26.0	1.00
1500	8.8	65	25.4	0.15
1600	12.2	272	26.5	0.63
1700	9.8	320	26.8	0.38
1800	4.6	48	25.6	0.15
1900	6.1	51	23.1	0.01
2000	6.0	95	19.7	0.00
2100	1.1	170	18.2	0.00
2200	2.8	51	13.7	0.00
2300	4.6	54	11.7	0.00
MAX	15.4	353	26.8	1.02
MIN	0.2	17	2.8	0.00
AVG	5.8	129	17.4	0.32
	MPH	DEG	CENT	LGLY

17 AUG. '81 (229)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	4.3	64	10.6	0.00
100	3.8	94	9.8	0.00
200	3.9	64	8.3	0.00
300	4.3	70	8.8	0.00
400	1.9	61	7.6	0.00
500	2.0	76	3.5	0.00
600	3.2	79	7.7	0.04
700	0.9	323	11.5	0.25
800	3.1	347	17.2	0.46
900	1.8	351	22.0	0.77
1000	3.7	338	23.3	0.94
1100	0.6	302	25.5	0.95
1200	7.5	269	27.1	1.03
1300	5.3	333	28.1	1.09
1400	17.1	168	26.0	0.70
1500	8.8	226	27.2	0.27
1600	7.2	92	26.8	0.41
1700	4.0	206	28.3	0.43
1800	7.3	190	26.3	0.14
1900	6.7	198	23.3	0.01
2000	5.1	67	19.1	0.00
2100	3.5	71	15.9	0.00
2200	4.0	73	13.8	0.00
2300	4.0	69	13.2	0.00
MAX	17.1	351	28.3	1.09
MIN	0.6	61	3.5	0.00
AVG	4.8	172	18.0	0.31
	MPH	DEG	CENT	LGLY

18 AUG. 1981 (230)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	4.5	59	11.3	0.00
100	5.3	34	11.3	0.00
200	5.5	75	11.0	0.00
300	2.3	61	10.4	0.00
400	3.7	61	9.7	0.00
500	4.5	71	10.3	0.00
600	5.7	71	10.0	0.03
700	4.3	15	14.1	0.22
800	6.9	68	20.0	0.34
900	0.2	218	25.9	0.75
1000	2.0	343	26.8	0.95
1100	4.6	75	25.4	0.21
1200	11.1	333	24.1	0.20
1300	8.5	31	24.3	0.25
1400	11.0	52	28.3	1.15
1500	9.7	312	25.9	0.31
1600	16.5	263	24.3	0.12
1700	13.5	211	26.2	0.39
1800	6.0	188	26.3	0.16
1900	6.7	277	23.5	0.01
2000	5.4	156	21.7	0.00
2100	3.8	69	16.5	0.00
2200	1.9	65	14.4	0.00
2300	5.2	87	13.4	0.00
MAX	16.5	343	28.3	1.15
MIN	0.2	15	9.7	0.00
AVG	6.2	133	19.0	0.21
	MPH	DEG	CENT	LGLY

19 AUG. '81 (231)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	3.2	74	12.1	0.00
100	5.6	107	12.5	0.00
200	4.0	27	11.5	0.00
300	5.5	93	11.9	0.00
400	3.8	76	12.0	0.00
500	3.9	78	10.9	0.00
600	2.6	62	10.6	0.03
700	5.4	92	15.2	0.26
800	2.3	76	22.2	0.51
900	4.4	303	20.6	0.77
1000	10.6	319	24.5	0.15
1100	4.2	25	25.8	1.09
1200	3.5	8	25.8	0.28
1300	1.8	18	23.6	0.20
1400	5.0	324	26.9	0.26
1500	18.1	283	28.1	0.27
1600	14.4	215	29.6	0.64
1700	7.9	214	28.4	0.40
1800	9.3	231	27.4	0.13
1900	3.3	229	24.5	0.01
2000	7.6	175	21.6	0.00
2100	6.5	78	17.3	0.00
2200	5.2	77	15.0	0.00
2300	4.4	66	13.7	0.00
MAX	18.1	324	29.6	1.09
MIN	1.8	8	10.6	0.00
AVG	5.9	135	19.7	0.21
	MPH	DEG	CENT	LGLY

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	5.3	58	13.8	0.00
100	8.1	81	13.0	0.00
200	6.9	90	13.6	0.00
300	7.1	106	13.7	0.00
400	7.5	90	12.9	0.00
500	3.3	65	11.3	0.00
600	6.9	78	12.7	0.05
700	2.9	48	16.8	0.09
800	7.3	347	21.4	0.57
900	20.1	292	21.5	0.65
1000	22.4	299	20.2	0.58
1100	12.8	295	18.7	0.13
1200	11.2	234	17.9	0.10
1300	6.9	35	15.5	0.10
1400	21.1	161	17.3	0.14
1500	8.0	81	18.4	0.19
1600	4.2	110	19.6	0.23
1700	4.4	94	19.3	0.15
1800	14.3	220	15.1	0.01
1900	8.4	93	13.8	0.00
2000	2.9	85	13.6	0.00
2100	6.2	80	13.3	0.00
2200	2.8	121	12.7	0.00
2300	2.6	151	10.8	0.00
MAX	22.4	347	21.5	0.65
MIN	2.6	35	10.8	0.00
AVG	8.5	138	15.7	0.12
	MPH	DEG	CENT	LGLY

21 AUG. '81 (233)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	2.3	109	9.4	0.00
100	2.7	114	9.5	0.00
200	1.8	69	8.5	0.00
300	2.4	315	8.8	0.00
400	6.5	97	8.3	0.00
500	3.4	84	8.6	0.00
600	4.1	108	9.8	0.00
700	6.1	16	10.3	0.08
800	3.3	81	14.3	0.51
900	5.9	2	17.3	0.58
1000	1.3	170	21.8	0.98
1100	3.0	357	21.4	1.28
1200	3.8	331	23.0	1.36
1300	1.2	227	22.9	0.41
1400	0.3	299	23.1	0.32
1500	7.9	225	24.8	0.71
1600	7.4	237	23.6	0.14
1700	10.5	264	24.2	0.10
1800	8.6	289	23.8	0.15
1900	8.0	217	20.3	0.01
2000	3.7	220	19.5	0.00
2100	4.3	106	15.6	0.00
2200	2.8	85	14.1	0.00
2300	3.3	61	12.2	0.00
MAX	10.5	357	24.8	1.36
MIN	0.3	2	8.3	0.00
AVG	4.4	170	16.5	0.23
	MPH	DEG	CENT	LG/LY

22 AUG. 1981 (234)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	5.3	65	11.2	0.00
100	6.5	60	10.7	0.00
200	4.2	31	10.2	0.00
300	5.3	85	11.2	0.00
400	3.4	76	9.6	0.00
500	5.4	41	9.2	0.00
600	4.9	109	10.4	0.03
700	3.6	56	13.1	0.29
800	5.4	37	19.4	0.55
900	1.0	261	23.9	0.87
1000	3.6	176	25.8	1.06
1100	10.7	296	25.6	1.34
1200	9.7	293	27.8	0.53
1300	7.4	324	27.8	1.36
1400	13.3	170	26.3	1.28
1500	13.7	158	26.7	1.11
1600	13.5	157	25.2	0.23
1700	11.6	175	23.6	0.17
1800	5.8	10	23.2	0.05
1900	7.5	264	22.3	0.01
2000	3.7	145	21.1	0.00
2100	7.0	105	18.0	0.00
2200	4.4	104	16.8	0.00
2300	2.1	263	14.0	0.00
MAX	13.7	324	27.8	1.36
MIN	1.0	10	9.2	0.00
AVG	6.6	144	18.9	0.37
	MPH	DEG	CENT	LGLY

23 AUG. 1981 (235)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	4.4	61	12.8	0.00
100	3.3	60	11.7	0.00
200	3.4	73	10.8	0.00
300	5.3	83	10.3	0.00
400	5.4	73	11.1	0.00
500	3.2	79	12.1	0.00
600	6.3	80	12.1	0.03
700	9.0	86	13.5	0.09
800	5.0	88	19.1	0.21
900	3.6	27	21.1	0.12
1000	0.9	327	14.0	0.39
1100	5.0	189	13.8	0.07
1200	7.4	52	16.0	0.17
1300	11.8	81	20.3	0.46
1400	3.0	1	19.4	0.20
1500	12.1	163	21.4	0.73
1600	12.6	110	21.9	0.82
1700	7.6	81	23.8	0.45
1800	2.3	62	22.0	0.04
1900	3.3	117	20.0	0.01
2000	7.3	84	18.0	0.00
2100	4.5	97	16.3	0.00
2200	6.2	105	15.3	0.00
2300	7.2	79	14.3	0.00
MAX	12.6	327	23.8	0.82
MIN	0.9	1	10.3	0.00
AVG	5.8	94	16.5	0.16
	MPH	DEG	CENT	LGly

24 AUG. '81 (236)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	6.6	101	13.1	0.00
100	3.7	102	12.0	0.00
200	7.2	110	12.6	0.00
300	6.8	89	12.5	0.00
400	5.2	72	10.9	0.00
500	7.0	94	11.9	0.00
600	6.8	93	11.5	0.05
700	4.6	70	14.4	0.29
800	3.7	58	19.3	0.58
900	3.5	56	24.5	0.80
1000	4.0	217	26.3	0.97
1100	12.1	312	26.2	1.12
1200	2.6	20	29.0	1.22
1300	12.6	264	25.5	1.28
1400	7.7	237	30.0	1.10
1500	4.0	210	29.6	0.96
1600	10.1	274	30.0	0.77
1700	7.7	255	19.1	0.12
1800	6.9	99	20.0	0.05
1900	3.3	135	20.1	0.01
2000	6.9	69	18.2	0.00
2100	7.1	143	18.6	0.00
2200	3.3	82	15.1	0.00
2300	3.1	149	14.5	0.00
MAX	12.6	312	30.0	1.28
MIN	2.6	20	10.9	0.00
AVG	6.1	138	19.4	0.39
	MPH	DEG	CENT	LGLY

25 AUG. '81 (237)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	7.6	82	10.7	0.00
100	5.0	110	12.0	0.00
200	0.7	112	10.7	0.00
300	3.5	93	9.8	0.00
400	3.8	103	9.4	0.00
500	0.9	84	9.0	0.00
600	1.7	255	9.2	0.03
700	0.2	220	13.0	0.24
800	0.5	50	12.7	0.54
900	1.3	287	21.5	0.82
1000	6.3	289	23.1	1.03
1100	12.6	11	25.1	1.16
1200	11.7	271	25.9	1.20
1300	11.9	357	27.4	1.18
1400	4.0	352	28.5	1.09
1500	5.7	289	27.5	0.94
1600	12.8	269	28.6	0.70
1700	8.3	313	28.1	0.40
1800	12.8	36	23.7	0.02
1900	12.4	101	22.0	0.00
2000	6.3	101	19.5	0.00
2100	3.3	96	13.7	0.01
2200	1.5	71	13.3	0.00
2300	2.2	28	15.2	0.00
MAX	12.8	357	28.6	1.20
MIN	0.2	11	9.0	0.00
AVG	5.7	166	18.3	0.39
	MPH	DEG	CENT	LGLY

26 AUG. 1981 (238)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	6.0	145	15.4	0.00
100	4.0	55	13.7	0.00
200	3.9	35	14.0	0.00
300	9.0	105	15.3	0.00
400	2.1	309	10.6	0.00
500	2.0	321	13.6	0.00
600	2.4	69	12.4	0.03
700	7.1	97	16.1	0.00
800	5.6	56	19.2	0.43
900	3.9	1	22.1	0.84
1000	2.2	57	23.7	1.01
1100	4.5	269	25.3	1.20
1200	5.5	355	27.0	1.10
1300	8.3	305	27.2	1.28
1400	1.9	238	26.9	1.27
1500	7.0	80	27.8	0.96
1600	2.0	289	26.0	0.16
1700	8.0	92	24.3	0.03
1800	10.6	217	20.1	0.01
1900	11.1	132	19.2	0.00
2000	7.3	46	17.1	0.00
2100	6.4	77	15.9	0.00
2200	7.3	110	15.6	0.00
2300	4.8	137	15.2	0.00
MAX	11.1	355	27.8	1.28
MIN	1.9	1	10.6	0.00
AVG	5.5	150	19.3	0.35
	MPH	DEG	CENT	LG/LY

27 AUG. 1981 (239)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	3.0	76	11.6	0.00
100	4.2	114	11.9	0.00
200	3.6	111	11.3	0.00
300	2.3	69	11.0	0.00
400	0.0	112	10.1	0.00
500	4.7	66	8.9	0.00
600	3.3	94	9.1	0.03
700	4.6	55	12.6	0.20
800	4.1	88	19.0	0.40
900	3.5	10	22.2	0.80
1000	7.3	63	25.4	0.99
1100	6.8	9	25.6	1.17
1200	8.6	167	28.8	1.32
1300	13.9	147	24.6	0.24
1400	9.6	171	25.4	0.30
1500	13.4	214	22.6	0.19
1600	6.2	246	27.5	0.61
1700	6.3	244	27.3	0.34
1800	9.2	233	23.9	0.08
1900	8.3	197	22.7	0.00
2000	4.0	65	17.5	0.00
2100	5.4	55	15.4	0.00
2200	0.9	284	15.4	0.00
2300	3.0	14	15.8	0.00
MAX	13.9	284	28.8	1.32
MIN	0.0	9	8.9	0.00
AVG	5.7	121	18.6	0.28
	MPH	DEG	CENT	LGly

28 AUG. 1981 (240)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	5.0	78	15.3	0.00
100	2.5	103	15.7	0.00
200	4.4	119	15.8	0.00
300	7.2	90	16.0	0.00
400	6.7	72	14.3	0.00
500	7.8	121	16.4	0.00
600	2.4	51	15.6	0.02
700	3.9	84	17.5	0.18
800	2.5	199	19.3	0.22
900	5.2	223	20.4	0.82
1000	13.5	199	23.9	1.21
1100	16.3	201	22.5	0.56
1200	11.9	164	23.2	0.60
1300	10.6	334	20.7	0.61
1400	7.0	33	21.9	0.21
1500	6.9	83	22.8	0.38
1600	9.5	36	23.5	0.24
1700	10.2	17	20.4	0.02
1800	2.7	122	17.2	0.07
1900	6.9	155	15.7	0.00
2000	10.6	58	14.0	0.00
2100	8.0	67	13.8	0.00
2200	9.3	59	13.1	0.00
2300	6.0	71	14.4	0.00
MAX	16.3	334	23.9	1.21
MIN	2.4	17	13.1	0.00
AVG	7.4	114	18.1	0.21
	MPH	DEG	CENT	LC/LY

29 AUG. 1981 (241)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	11.8	172	14.3	0.00
100	8.5	133	13.9	0.00
200	7.5	262	13.1	0.00
300	19.0	183	12.5	0.00
400	8.1	129	12.8	0.01
500	10.1	17	11.7	0.00
600	7.2	97	12.2	0.03
700	6.0	111	13.1	0.26
800	11.1	103	13.0	0.50
900	12.5	120	19.7	0.73
1000	13.1	165	22.4	0.98
1100	11.2	194	20.7	1.11
1200	13.9	188	24.9	1.17
1300	18.3	213	24.6	0.70
1400	12.9	200	24.4	0.56
1500	15.2	215	25.9	0.75
1600	19.6	241	23.3	0.02
1700	14.6	206	11.0	0.02
1800	8.5	87	12.2	0.01
1900	3.2	145	12.6	0.00
2000	10.9	134	12.3	0.00
2100	7.0	75	12.6	0.00
2200	5.2	115	13.0	0.00
2300	7.9	99	12.6	0.00
MAX	19.6	262	25.9	1.17
MIN	3.2	17	11.0	0.00
AVG	11.0	150	16.2	0.29
	MPH	DEG	CENT	LGly

30 AUG. '81 (242)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	8.6	62	12.6	0.00
100	7.5	83	12.3	0.00
200	6.4	132	12.1	0.00
300	8.0	98	11.6	0.01
400	5.2	110	10.7	0.01
500	5.3	89	15.5	0.01
600	4.4	103	10.1	0.04
700	5.4	70	10.5	0.25
800	2.8	20	15.7	0.52
900	3.4	264	20.1	0.77
1000	14.8	197	21.1	0.97
1100	8.1	224	22.3	1.09
1200	5.4	212	23.7	1.37
1300	20.0	239	24.4	1.28
1400	13.1	280	25.0	1.28
1500	12.0	275	23.0	0.31
1600	8.9	75	21.8	0.09
1700	9.7	205	20.1	0.07
1800	15.8	203	19.5	0.02
1900	16.3	176	19.4	0.01
2000	5.4	79	17.4	0.01
2100	2.2	98	16.0	0.01
2200	4.1	159	15.7	0.01
2300	5.4	90	13.9	0.00
MAX	20.0	280	25.0	1.37
MIN	2.2	20	10.1	0.00
AVG	8.3	148	17.3	0.34
	MPH	DEG	CENT	LGLY

31 AUG. 1981 (243)

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AIR MONITORING REPORT
FOR
PROTOTYPE OIL SHALE LEASE TRACT C-B

SEPTEMBER 1981

SUBMITTED
JANUARY 6, 1981



PREPARED BY :
OCCIDENTAL OIL SHALE, INC. OPERATOR
P.O. BOX 2687
GRAND JUNCTION, COLORADO 81501

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MONTHLY SUMMARY REPORT: FREQUENCY TABLE OF WIND SPEED BY DIRECTION

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MONTHLY SUMMARY REPORT: FIVE MAXIMUM INDEPENDENT SLIDING AVERAGES

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NITRIC OXIDE
(UG/M3)

CH-TRACT
TPAILER AR20
SEPT 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	1	0	0	0	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	2	2	1	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	2
3	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
5	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
6	2	2	2	2	2	2	4	4	2	4	4	4	4	2	2	2	2	2	2	2	2	2	2	2	2	2
7	4	4	4	4	4	4	4	4	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	4
8	4	4	4	4	4	4	4	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4
9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	1	0	0	1	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1
AV	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
PK	4	4	4	4	4	4	4	4	4	4	4	4	4	2	2	2	2	2	2	2	2	2	2	2	2	4

CB-TRACT
TRAILER AH23
SEPT 1981
OCCIDENTAL OIL SHALE INC.

[illegible]

OXIDES OF NITROGEN
(0.5/W3)

CR-TRACT
TRAILER AH20
SEPT 1981
OCCIDENTAL OIL SHALE INC.

DAY	HOUR (LOCAL STANDARD TIME)																								AVE	PEAK
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	2	4	2	2	2	4	4	4	6	2	0	0	0	0	0	0	0	0	0	2	2	2	2	0	1	4
2	4	2	2	2	2	4	4	4	6	2	0	0	0	0	0	0	0	0	0	2	2	2	2	0	1	4
3	4	2	2	2	2	4	4	4	6	2	0	0	0	0	0	0	0	0	0	2	2	2	2	0	1	4
4	4	2	2	2	2	4	4	4	6	2	0	0	0	0	0	0	0	0	0	2	2	2	2	0	1	4
5	4	2	2	2	2	4	4	4	6	2	0	0	0	0	0	0	0	0	0	2	2	2	2	0	1	4
6	4	2	2	2	2	4	4	4	6	2	0	0	0	0	0	0	0	0	0	2	2	2	2	0	1	4
7	4	2	2	2	2	4	4	4	6	2	0	0	0	0	0	0	0	0	0	2	2	2	2	0	1	4
8	4	2	2	2	2	4	4	4	6	2	0	0	0	0	0	0	0	0	0	2	2	2	2	0	1	4
9	4	2	2	2	2	4	4	4	6	2	0	0	0	0	0	0	0	0	0	2	2	2	2	0	1	4
10	4	2	2	2	2	4	4	4	6	2	0	0	0	0	0	0	0	0	0	2	2	2	2	0	1	4
11	4	2	2	2	2	4	4	4	6	2	0	0	0	0	0	0	0	0	0	2	2	2	2	0	1	4
12	4	2	2	2	2	4	4	4	6	2	0	0	0	0	0	0	0	0	0	2	2	2	2	0	1	4
13	4	2	2	2	2	4	4	4	6	2	0	0	0	0	0	0	0	0	0	2	2	2	2	0	1	4
14	4	2	2	2	2	4	4	4	6	2	0	0	0	0	0	0	0	0	0	2	2	2	2	0	1	4
15	4	2	2	2	2	4	4	4	6	2	0	0	0	0	0	0	0	0	0	2	2	2	2	0	1	4
16	4	2	2	2	2	4	4	4	6	2	0	0	0	0	0	0	0	0	0	2	2	2	2	0	1	4
17	4	2	2	2	2	4	4	4	6	2	0	0	0	0	0	0	0	0	0	2	2	2	2	0	1	4
18	4	2	2	2	2	4	4	4	6	2	0	0	0	0	0	0	0	0	0	2	2	2	2	0	1	4
19	4	2	2	2	2	4	4	4	6	2	0	0	0	0	0	0	0	0	0	2	2	2	2	0	1	4
20	4	2	2	2	2	4	4	4	6	2	0	0	0	0	0	0	0	0	0	2	2	2	2	0	1	4
21	4	2	2	2	2	4	4	4	6	2	0	0	0	0	0	0	0	0	0	2	2	2	2	0	1	4
22	4	2	2	2	2	4	4	4	6	2	0	0	0	0	0	0	0	0	0	2	2	2	2	0	1	4
23	4	2	2	2	2	4	4	4	6	2	0	0	0	0	0	0	0	0	0	2	2	2	2	0	1	4
24	4	2	2	2	2	4	4	4	6	2	0	0	0	0	0	0	0	0	0	2	2	2	2	0	1	4
25	4	2	2	2	2	4	4	4	6	2	0	0	0	0	0	0	0	0	0	2	2	2	2	0	1	4
26	4	2	2	2	2	4	4	4	6	2	0	0	0	0	0	0	0	0	0	2	2	2	2	0	1	4
27	4	2	2	2	2	4	4	4	6	2	0	0	0	0	0	0	0	0	0	2	2	2	2	0	1	4
28	4	2	2	2	2	4	4	4	6	2	0	0	0	0	0	0	0	0	0	2	2	2	2	0	1	4
29	4	2	2	2	2	4	4	4	6	2	0	0	0	0	0	0	0	0	0	2	2	2	2	0	1	4
30	4	2	2	2	2	4	4	4	6	2	0	0	0	0	0	0	0	0	0	2	2	2	2	0	1	4
AV	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	8
PK	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	8

CB-TRACT
TRAILER AR23
SEPT 1991
OCCIDENTAL OIL SHALE INC.

[illegible]

NITROGEN DIOXIDE
(05/93)

CB-TRACT
TRAILER AH20
SFP1 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2
2	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	4
3	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
4	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
5	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	2
6	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2	1	2
7	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2	1	2
8	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
9	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
10	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
11	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
12	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
13	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
14	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
15	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
16	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
17	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
18	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
19	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
20	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
21	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
22	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
23	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
24	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
25	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
26	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
27	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
28	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
29	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
30	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

AV	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
PK	2	0	0	0	0	4	4	2	2	2	2	2	2	2	2	2	2	2	2	4	2	2	2	2	2	4

CB-TRACT
TRAILER AR23
SEPT 1981
OCCIDENTAL OIL SHALE INC.

11-513

OZONE
(100/M3)

CB-TRACT
TRAILER AR20
SEPT 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	110	105	104	102	104	102	94	94	108	127	129	(CA)	(CA)	67	131	133	133	139	139	120	116	114	112	110	113	139
2	112	112	116	112	114	106	100	104	114	120	118	116	118	90	88	90	94	100	94	92	98	90	94	92	103	120
3	84	80	76	84	80	80	76	76	94	96	102	110	112	114	120	116	112	112	106	88	78	69	71	73	92	120
4	71	71	73	74	73	73	55	63	88	100	100	102	104	104	108	108	114	116	104	92	104	102	104	102	92	116
5	94	86	80	82	84	76	69	65	78	104	104	104	102	102	104	102	96	76	80	78	76	69	69	69	85	104
6	65	63	59	57	57	57	59	65	71	74	76	76	82	84	80	86	80	73	61	51	43	37	37	37	63	86
7	31	29	35	37	47	43	43	55	71	74	76	76	76	82	88	82	78	69	57	47	43	39	35	35	56	88
8	31	29	33	33	33	31	37	47	59	71	86	94	94	88	86	88	92	92	73	59	63	61	53	51	62	94
9	53	49	49	47	43	39	35	45	61	84	86	88	92	84	76	76	59	51	41	33	43	63	61	51	59	92
10	61	45	41	35	41	39	35	41	55	84	78	84	76	86	90	86	80	71	63	39	29	35	33	33	57	90
11	22	22	24	22	24	15	16	29	71	73	76	82	88	90	92	94	90	73	63	51	49	41	37	35	53	94
12	35	33	37	39	31	31	33	47	67	90	98	104	106	104	100	102	104	96	90	74	65	65	73	59	70	106
13	54	55	59	59	59	55	51	67	86	100	102	102	102	100	92	88	84	88	96	82	69	69	63	61	77	102
14	57	57	53	47	51	49	49	45	53	71	88	98	98	96	98	88	88	88	80	69	73	74	53	53	70	98
15	49	49	45	31	25	25	31	47	65	82	90	90	88	88	86	86	84	88	78	59	53	51	49	49	62	90
16	45	47	47	45	39	33	34	47	61	69	78	86	86	90	92	86	82	82	73	55	49	41	41	41	61	92
17	41	34	39	37	35	31	31	39	53	63	71	78	78	74	78	78	76	78	63	49	47	47	43	45	55	78
18	45	47	47	43	43	41	39	41	45	59	71	76	78	80	80	80	80	78	63	51	53	53	55	57	59	80
19	55	55	53	53	49	49	47	53	61	76	80	88	88	84	82	82	78	74	65	59	59	57	57	61	65	88
20	57	59	61	59	59	57	55	55	67	90	92	96	96	94	92	92	82	88	84	71	63	55	55	57	72	96
21	51	59	67	65	45	41	45	55	71	90	110	108	98	96	94	96	42	80	65	71	69	65	65	65	73	110
22	55	57	57	53	51	45	41	53	74	90	88	85	84	86	86	86	86	86	73	57	55	55	55	57	67	90
23	59	59	57	55	55	51	45	53	61	80	84	86	86	82	84	82	80	80	69	73	73	59	53	53	67	86
24	51	51	45	45	45	37	37	37	59	80	80	71	65	57	63	59	45	33	33	31	29	27	33	37	48	80
25	39	37	39	35	35	31	25	33	53	71	74	76	76	76	80	80	80	74	55	47	37	31	31	35	54	80
26	35	35	33	22	24	25	25	33	53	67	76	74	86	84	84	86	84	84	73	53	51	51	51	49	56	86
27	51	53	51	51	51	55	55	55	63	76	78	76	71	69	69	73	73	73	53	49	47	55	55	61	61	73
28	53	51	53	57	59	55	55	55	65	84	82	78	73	74	78	78	78	78	55	55	53	55	53	51	64	84
29	53	53	53	57	55	51	45	45	65	78	80	88	73	86	86	88	92	96	78	65	61	55	59	61	68	96
30	57	59	57	53	49	57	49	55	67	78	80	80	84	82	80	80	84	88	82	69	55	47	45	45	68	88
AV	56	55	55	53	52	49	47	54	69	83	88	89	88	87	89	89	86	84	74	63	60	58	56	56	68	
PK	112	112	116	112	114	106	100	104	114	127	129	116	118	114	131	133	133	139	139	120	116	114	112	110	139	

OZONE
(UG/M3)

CB-TRACT
TRAILER AB23
SEPT 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	76	76	76	74	73	74	69	74	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	92	96	98	98	90	92	90	88	88	84	98
2	90	90	86	84	80	76	73	69	78	76	76	76	76	74	76	76	76	82	73	76	80	74	80	74	78	90
3	69	67	71	65	61	61	61	63	73	74	86	94	94	98	104	98	94	92	88	80	82	82	76	76	80	104
4	78	74	78	76	78	78	71	73	82	84	84	86	88	86	88	90	92	92	88	86	84	84	86	86	83	92
5	80	82	80	78	76	73	71	71	78	88	86	84	82	80	82	80	76	73	67	69	67	63	59	53	75	88
6	59	55	53	51	51	51	45	51	53	51	53	59	67	65	63	65	61	51	49	47	41	39	33	31	52	67
7	29	45	45	47	47	47	49	53	55	53	55	57	57	61	65	59	63	57	53	37	43	45	47	47	51	65
8	53	39	45	47	47	45	43	35	45	57	71	78	76	73	59	61	76	55	39	33	49	49	45	43	53	78
9	49	45	53	51	53	49	43	47	65	69	73	76	78	78	74	69	61	53	51	49	69	74	73	69	61	78
10	71	61	57	55	51	47	63	53	63	74	71	76	80	80	82	78	73	63	53	35	35	45	47	47	61	82
11	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	84	76	71	67	67	73	69	74	()	84
12	63	80	73	69	65	74	67	67	73	98	102	104	104	104	98	98	100	96	88	80	71	74	100	92	85	104
13	82	80	80	80	76	74	74	78	71	82	96	100	102	98	84	80	84	86	92	90	78	80	78	88	85	102
14	82	82	69	76	74	76	69	65	63	51	80	96	102	98	92	92	96	90	84	73	73	82	78	80	80	102
15	80	78	78	73	67	67	63	55	67	71	84	90	92	88	88	86	80	82	84	78	71	69	69	67	76	92
16	67	61	63	71	65	59	55	55	61	67	76	84	86	86	90	84	76	78	71	67	69	67	55	57	69	90
17	55	55	51	53	45	55	53	51	57	65	71	73	78	76	76	76	74	76	74	61	63	65	65	61	64	78
18	65	61	55	59	61	65	53	47	51	63	73	76	78	80	82	84	84	74	80	59	73	71	69	65	68	84
19	69	69	67	67	69	73	69	59	73	80	86	82	78	84	78	78	78	76	78	76	80	78	78	76	75	86
20	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	90	84	74	82	80	73	71	65	63	()	92
21	65	65	80	71	69	61	61	61	80	96	104	102	100	98	98	84	88	94	96	88	80	78	82	69	82	104
22	63	67	69	57	59	73	78	76	92	92	90	88	86	88	88	88	86	84	78	71	73	73	73	74	78	92
23	80	76	73	73	74	73	74	67	67	76	82	86	84	82	86	86	82	80	76	74	71	71	71	74	77	85
24	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	63	71	67	65	69	59	67	69	65	67	()	71
25	65	65	65	67	69	69	71	73	74	74	76	78	76	76	78	78	78	63	63	65	61	65	69	69	70	78
26	67	63	53	49	47	45	47	45	57	57	71	78	88	78	73	82	78	76	73	69	63	67	65	67	65	88
27	73	69	71	69	67	69	69	67	73	80	80	78	74	71	71	74	74	74	73	71	71	73	76	76	73	80
28	76	78	78	80	80	71	71	69	76	78	73	71	65	67	71	71	69	63	65	65	67	67	65	67	71	80
29	63	71	69	67	67	65	65	63	71	74	73	71	73	71	73	76	90	92	86	78	74	74	78	76	73	92
30	67	69	69	63	55	57	55	57	59	71	74	76	78	76	67	67	73	78	80	73	69	69	69	67	68	80
AV	68	68	67	66	64	64	62	60	68	74	79	82	83	81	80	80	80	77	74	68	68	69	69	68	72	72
PK	90	90	86	84	80	78	78	76	92	98	104	104	104	104	104	98	100	98	98	90	92	90	100	92	92	104

CARBON MONOXIDE
(UG/M3)

CR-TRACT
TRAILER AH20
SEPT 1941
OCCIDENTAL OIL SHALE INC.

DAY	HOUR (LOCAL STANDARD TIME)																								AVE PEAK	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	200	200	200	200	200	200	100	100	0	0	0	0	300	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	200	300
2	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	100	0	0	0	0	0	0	0	0	0	0	0	0	100
3	600	600	600	600	600	600	700	700	700	600	600	500	600	600	700	700	700	700	700	700	800	600	600	500	300	700
4	700	700	700	800	800	800	900	900	900	800	900	400	600	600	600	600	600	600	600	500	500	500	500	700	600	800
5	600	600	600	500	600	600	600	600	700	700	700	700	700	700	700	700	700	700	700	700	600	600	600	500	700	900
6	600	600	600	600	600	700	700	700	700	700	700	800	900	900	900	900	800	800	700	700	600	600	600	600	800	900
7	600	600	600	600	600	700	700	700	700	700	700	800	900	900	900	900	800	800	700	700	600	600	600	700	900	0
8	600	700	700	700	800	800	900	900	800	800	800	800	800	200	300	500	300	500	300	500	500	500	500	600	900	0
9	500	500	500	500	500	600	600	600	500	600	700	600	800	800	800	700	700	700	700	700	700	700	700	600	800	0
10	700	700	700	700	700	800	900	800	800	800	900	900	900	700	700	700	700	700	700	700	700	700	700	600	800	0
11	600	700	700	700	700	800	900	800	800	900	800	900	800	300	500	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	700	900
12	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	800	900	900	900	900	1000	1000	800	900	900	800	800	900	1000
13	800	800	700	700	700	700	700	700	800	800	800	800	600	500	600	600	500	600	500	600	600	600	600	500	600	800
14	500	300	500	500	500	600	600	600	600	600	500	500	800	800	900	1000	900	900	900	800	1000	900	800	800	700	1000
15	800	700	700	700	800	900	900	1000	900	900	900	900	600	600	700	700	800	800	800	800	700	700	600	500	700	900
16	800	700	700	700	800	900	900	900	900	900	900	900	600	600	700	700	800	800	800	700	700	600	500	700	900	0
17	500	600	600	600	600	700	800	800	800	800	800	700	600	700	700	700	700	800	800	800	700	700	600	600	700	800
18	600	500	500	500	500	700	700	700	700	600	500	300	300	300	500	500	600	500	500	500	500	500	500	500	500	700
19	600	500	600	600	600	500	700	700	500	300	500	500	300	300	300	300	500	300	200	300	300	300	300	300	400	700
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	600	500	600	600	500	600	700	600	600	600	600	600	500	500	600	500	600	500	500	500	500	500	500	500	500	700
22	300	300	500	300	500	500	600	500	500	300	500	500	300	300	500	500	300	300	500	500	500	500	500	500	400	600
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	200	200	200	200	200	300	300	300	300	200	200	300	500	600	600	600	700	600	500	500	700	600	500	500	400	700
25	500	600	600	600	600	700	800	700	700	700	600	700	300	300	300	300	500	500	300	300	500	300	300	500	500	800
26	500	500	500	500	500	700	700	700	700	700	600	200	0	100	100	100	200	200	200	200	300	200	200	200	400	700
27	300	300	300	300	500	500	500	600	500	500	500	500	600	600	600	600	600	600	600	600	600	600	600	600	500	700
28	600	600	600	600	600	600	0	0	0	600	700	700	600	600	600	600	700	600	600	600	600	600	600	600	500	700
29	500	600	600	600	600	600	600	600	600	600	600	600	100	200	200	300	300	300	300	300	300	300	300	300	400	600
30	200	100	200	200	200	100	300	300	300	200	300	300	200	0	100	100	500	100	100	100	200	300	500	600	200	600
AV	500	500	500	500	500	600	500	600	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	1000
PK	800	800	700	800	900	1000	900	1000	900	900	900	900	900	900	900	1000	900	1000	1000	1000	1000	900	800	800	800	1000

CARBON MONOXIDE
(UG/M3)

CH-TRACT
TRAILER AR23
SEPT 1981
OCCIDENTAL OIL SHALE INC.

DAY	HOUR (LOCAL STANDARD TIME)																								AVE	PEAK
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	0	
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	0	
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	0	
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
AV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

SULFUR DIOXIDE
(UG/M3)

CB-TRACT
TRAILER AR20
SEPT 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
2	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
3	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
4	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
5	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
6	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
9	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
10	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
11	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
12	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
13	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
14	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
15	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
16	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
17	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
18	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
19	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
20	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
21	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
22	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
23	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
24	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
25	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
26	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
27	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
28	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
29	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
30	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
AV	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	6	6	6	6	6	6	6
MAX	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8

SULFUR DIOXIDE
(UG/M3)

CR-TRACT
TRAILER AR23
SEPT 1981
OCCIDENTAL OIL SHALE INC.

		HOUR (LOCAL STANDARD TIME)																									
DAY		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1		0	0	0	0	0	0	3	3	3	3	3	0	3	3	5	5	3	3	3	0	3	3	0	0	2	5
2		0	0	0	3	0	0	3	3	5	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5
3		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
4		0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	3	3	3	3	3	3	0	0	1	3
5		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6		0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	3	0	3	0	3
7		3	0	0	0	0	0	0	3	3	0	3	3	3	3	5	3	3	5	5	3	3	3	3	3	2	5
8		3	3	3	3	3	3	0	3	3	3	5	5	5	5	5	5	5	5	5	3	3	3	5	3	4	5
9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	()	5
12	3	3	3	3	3	0	3	3	3	3	3	3	3	3	5	3	3	3	3	3	3	3	3	3	3	3	5
13	0	3	3	3	3	3	3	3	0	3	3	5	5	5	5	3	3	3	3	3	5	3	3	3	3	3	8
14	3	3	3	3	3	3	3	3	3	3	3	5	5	5	5	5	5	5	5	5	3	3	3	3	3	3	8
15	3	3	3	3	3	0	0	0	3	3	3	3	5	5	5	8	5	5	5	5	5	5	3	3	3	3	8
16	3	5	8	5	5	5	3	3	5	5	5	18	21	13	10	10	8	8	5	5	3	3	3	3	3	7	21
17	3	3	3	3	3	3	3	3	5	5	5	8	13	8	5	8	5	5	8	5	5	5	3	3	3	5	13
18	5	3	3	5	3	3	3	3	5	5	5	5	8	5	5	8	5	10	18	13	8	10	5	8	5	7	18
19	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	8	8	10	18	13	8	10	8	8	5	7	18
20	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(CA)	(CA)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	8
21	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(PF)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
22	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
23	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
24	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
25	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
26	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
27	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
28	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
29	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
30	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
AV	2	2	2	2	2	1	1	1	2	3	2	4	4	4	3	4	3	3	3	3	2	3	2	2	1	2	
PK	5	5	8	5	5	5	5	5	5	8	8	18	21	13	10	10	8	10	18	13	8	10	8	8	5	2	21

HYDROGEN SULFIDE
(UG/M3)

CB-TRACT
TRAILER AR23
SEPT 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	3	1	3
2	1	3	3	1	3	3	1	1	1	1	0	0	0	0	3	3	3	3	3	3	3	3	3	3	2	3
3	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
5	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
6	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
7	1	3	3	3	3	3	3	3	1	3	3	3	3	3	1	1	1	1	1	1	1	1	1	1	2	3
8	1	3	3	1	1	1	1	1	1	1	1	1	1	6	1	1	1	1	1	1	1	1	1	1	2	6
9	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	3	3	3	3	3	3	3	1	2	3
10	1	3	3	3	3	3	3	3	1	3	1	3	1	3	3	1	3	3	3	3	3	3	3	3	2	3
11	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	1	3	3	3	3	1	3	(	3
12	1	3	1	3	3	1	3	3	1	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	3
13	3	3	3	3	3	3	3	3	3	1	1	3	3	1	3	1	3	3	1	1	3	3	3	3	2	3
14	1	3	1	1	3	3	3	3	3	3	1	3	1	1	0	0	0	0	0	0	0	0	0	0	1	3
15	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	3	1	3	1	3	3	1	2	3
17	1	3	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
18	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	3	1	1	1	(CA)	(CA)	(CA)	(CA)	(CA)	1	3
19	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
20	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
21	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
22	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
23	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
24	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
25	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
26	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
27	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
28	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
29	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
30	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
AV	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	6
PK	3	3	3	3	3	3	3	3	3	3	3	3	3	6	3	3	3	3	3	3	3	3	3	3	3	3

PARTICULATE DATA
UG/M3

CB-TRACT
SEPT 1981
OCCIDENTAL OIL SHALE, INC

DAY	AB20	STATION AB23	AD56
12	16.9	16.0	21.2
15	16.7	26.3	11.2
24	17.0	7.1	7.3
27	7.9	9300.0	7.0
30	27.1	23.5	3.2
PK	27.1	26.3	21.2
AV	17.1	18.2	10.0
GM	15.9	16.3	8.3

WIND SPEED @10M
METERS/SEC

CB-TRACT
TRAILER AH20
SEPT 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 AVE PEAK

1	2	2	3	4	4	4	3	1	2	2	3	3	3	3	1	1	3	1	1	0	2	1	2	2	4	4
2	4	3	1	1	0	1	2	1	3	2	3	2	4	3	2	2	2	2	1	0	1	3	2	2	2	4
3	3	3	1	1	3	2	2	5	1	3	4	2	3	3	4	1	1	1	1	0	2	2	2	2	2	5
4	2	3	3	4	4	1	1	2	1	3	4	2	4	3	2	2	2	1	2	2	3	4	2	2	4	4
5	1	0	2	1	1	1	0	(CM)	3	2	2	2	2	3	2	(CM)	(CM)	1	1	2	1	0	2	2	3	4
6	0	(CM)	1	1	0	1	1	2	3	0	0	4	2	3	(CM)	2	0	(CM)	0	0	1	(CM)	1	1	2	3
7	(CM)	(CM)	0	0	0	2	3	(CM)	0	1	3	4	3	3	2	0	(CM)	1	1	1	0	1	(CM)	1	1	3
8	(CM)	(CM)	0	0	0	1	2	(CM)	0	2	2	2	3	2	1	1	1	1	1	1	1	2	2	2	1	4
9	2	0	1	1	2	1	0	0	0	2	1	1	3	2	3	1	1	1	1	2	2	2	2	2	2	4
10	1	0	1	1	0	1	0	2	0	1	2	4	1	2	4	1	1	1	1	1	2	2	2	2	2	4
11	0	2	1	1	0	2	3	1	1	2	2	1	2	2	3	2	1	1	0	1	2	2	2	2	2	4
12	2	4	4	3	3	2	4	3	1	2	1	1	2	7	4	2	4	3	3	3	3	1	(CM)	2	2	7
13	2	3	2	3	3	3	3	4	1	0	2	2	0	3	2	3	3	3	0	1	3	4	2	2	3	7
14	4	3	2	0	2	1	1	1	2	1	1	1	0	3	2	2	3	1	1	2	1	1	2	2	4	4
15	1	1	1	(CM)	1	1	2	(CM)	1	0	2	4	4	1	2	4	2	2	2	0	1	2	2	2	2	4
16	1	1	1	(CM)	0	2	2	(CM)	1	2	3	4	4	3	2	3	3	1	1	1	(CM)	1	2	2	4	4
17	1	0	0	(CM)	1	1	2	(CM)	2	3	3	2	2	2	2	1	1	1	1	1	1	2	2	2	3	4
18	2	3	1	1	1	1	(CM)	2	2	2	2	2	2	2	1	3	2	2	2	2	2	2	2	2	3	4
19	2	2	1	0	0	3	3	3	1	2	2	2	2	4	4	4	4	2	2	2	2	3	2	2	4	4
20	(CM)	3	2	1	2	2	3	3	1	3	3	3	2	3	3	4	(CM)	1	1	1	2	1	1	2	4	4
21	1	2	2	2	1	1	2	1	4	4	3	4	4	4	4	4	3	1	1	1	1	1	2	2	4	4
22	2	1	2	2	2	1	2	3	1	4	4	4	4	4	4	4	3	0	3	3	2	2	2	2	4	4
23	2	1	0	0	0	1	0	1	1	1	0	2	0	2	1	2	2	0	0	0	2	2	2	2	2	4
24	1	1	0	0	1	1	0	4	3	3	3	4	5	4	4	0	2	1	1	(CM)	(CM)	(CM)	2	2	2	5
25	1	1	(CM)	(CM)	0	1	3	1	3	3	4	4	5	4	4	4	2	(CM)	1	2	(CM)	3	3	2	2	5
26	1	1	1	(CM)	0	2	2	1	1	3	3	4	7	5	4	2	2	0	0	1	2	2	2	2	7	5
27	2	2	2	1	1	4	4	3	1	3	2	4	3	3	3	3	1	(CM)	2	1	3	4	5	3	5	5
28	3	3	1	1	2	2	3	2	3	4	5	5	5	5	4	4	2	1	2	2	2	1	1	2	4	4
29	3	3	2	2	2	2	2	1	3	3	4	4	4	3	3	2	1	0	0	0	2	2	1	2	4	4
30	2	1	1	0	(CM)	2	2	1	2	0	1	1	2	2	1	3	2	(CM)	(CM)	(CM)	(CM)	1	1	1	1	3
AV	2	2	2	1	1	2	2	2	2	2	2	3	3	3	3	2	2	1	1	1	2	2	2	2	2	7
PK	5	4	4	4	4	4	4	5	4	4	7	5	7	7	4	5	4	3	3	3	3	4	5	5	5	7

WIND SPEED @ 10M
METERS/SEC

CR-TRACT
TRAILER AA23
SEPT 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	2	2	2	2	2	2	2	1	2	4	5	5	5	4	4	3	4	4	4	4	5	4	4	4	3	5
2	4	5	4	4	4	3	1	1	5	4	4	4	4	6	6	6	1	1	4	4	3	3	0	3	4	6
3	1	3	1	1	0	2	2	2	4	3	4	4	5	4	4	2	4	1	2	3	7	8	7	4	2	4
4	1	0	1	2	2	2	1	1	1	4	4	4	4	4	4	4	4	2	0	5	2	1	1	4	4	8
5	3	4	3	2	0	1	1	1	2	5	4	4	4	4	4	4	4	2	1	2	2	1	0	1	3	5
6	1	0	1	2	1	(CM)	1	2	2	2	1	0	1	2	2	1	1	2	1	2	0	1	0	0	1	2
7	2	1	2	2	1	1	1	0	0	0	1	1	3	4	4	3	2	3	1	2	3	4	1	2	2	4
8	0	1	1	0	0	0	1	0	0	1	(CM)	3	2	4	2	3	3	3	1	2	4	4	1	2	4	4
9	2	2	1	0	0	0	1	0	0	1	1	1	1	2	2	4	1	1	1	1	4	3	1	2	4	4
10	2	1	1	1	1	0	1	1	1	1	2	1	1	2	2	4	1	1	1	1	2	0	1	1	1	4
11	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	2	3	3	1	1	1	2	(	2
12	1	1	1	1	0	1	0	1	0	1	2	2	2	2	3	4	2	3	3	1	2	4	4	1	2	4
13	2	2	2	2	2	0	(CM)	1	2	2	1	1	2	1	6	3	3	4	4	1	2	2	1	2	2	6
14	1	1	0	1	1	1	0	1	1	(CM)	0	1	1	1	3	4	4	2	3	1	3	3	0	1	2	4
15	1	1	1	0	2	0	0	(CM)	0	1	1	1	1	2	3	3	3	2	2	1	2	1	0	1	1	3
16	1	0	0	1	1	2	1	0	0	1	2	2	2	4	3	4	5	4	2	1	0	0	1	0	2	4
17	0	1	0	1	(CM)	1	1	0	0	2	2	2	2	4	3	2	4	4	2	1	2	0	0	1	2	4
18	0	1	1	1	1	1	(CM)	0	1	1	1	1	1	1	1	2	1	2	3	2	2	1	1	1	3	3
19	1	2	2	2	2	2	2	1	2	3	3	3	2	3	4	4	3	3	3	4	5	4	4	1	1	5
20	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	4	6	2	3	1	3	2	3	3	6
21	1	3	4	4	3	2	2	1	1	4	3	4	4	4	4	4	2	2	3	4	1	2	1	2	3	4
22	0	2	0	0	1	2	1	1	6	6	5	5	7	7	6	6	5	4	3	3	2	1	0	0	3	7
23	2	0	1	1	1	1	1	1	1	1	1	1	2	2	3	4	4	4	4	4	2	2	4	4	2	4
24	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	8	1	2	3	3	3	2	2	1	3
25	5	4	3	2	4	4	6	8	9	8	8	8	8	8	8	8	7	3	0	1	2	1	1	1	5	9
26	1	2	1	2	2	1	1	1	0	2	3	2	5	6	6	4	2	4	3	3	(CM)	0	2	1	2	6
27	0	1	1	0	0	2	2	2	2	2	4	4	4	4	4	4	5	3	2	2	2	4	4	4	5	5
28	4	4	5	5	4	1	1	0	5	7	8	8	8	9	8	7	6	4	3	3	3	1	3	3	5	9
29	1	4	4	5	4	4	5	5	6	6	6	8	8	6	6	5	5	3	2	2	2	3	3	4	8	4
30	0	2	1	1	3	3	4	3	2	3	1	1	1	1	3	3	3	3	2	0	2	2	1	0	2	4
AV	2	2	2	2	2	2	2	1	2	3	3	3	3	4	4	4	3	3	2	2	2	2	2	2	2	9
PK	5	5	5	5	4	4	6	8	9	8	8	8	8	9	8	8	8	6	4	5	7	8	7	4	2	9

WIND SPEED @ 30M
METERS/SEC

CB-TRACT
TRAILER AA23
SEPT 1981
OCCIDENTAL OIL SHALE INC.

DAY	HOUR (LOCAL STANDARD TIME)																								AVE PEAK
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	3	8	4	4	4	3	2	1	3	6	6	6	6	6	4	4	5	6	7	7	8	7	6	6	5
2	8	5	5	8	7	4	2	2	7	5	5	5	4	8	8	8	2	2	4	4	4	4	6	4	5
3	4	1	2	4	1	5	3	3	5	4	6	5	4	5	5	2	1	5	4	4	4	1	6	0	5
4	4	6	4	3	4	2	2	1	1	7	6	6	6	6	6	6	6	3	5	2	3	1	2	6	4
5	1	0	1	2	2	0	1	2	2	2	1	0	1	3	3	1	1	2	1	2	0	1	0	0	1
6	3	3	3	3	2	2	1	1	0	1	1	2	4	5	4	4	3	1	1	2	2	1	2	1	2
7	1	0	0	(CM)	(CM)	0	1	0	1	1	1	4	3	4	2	3	4	4	1	3	5	6	3	3	2
8	1	0	0	0	1	(CM)	1	0	0	1	0	2	1	3	3	5	2	1	0	1	6	4	1	1	6
9	2	2	2	2	2	2	3	1	1	1	3	2	2	2	3	6	1	1	1	2	2	0	3	1	6
10	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	1	2	2	3	0	0	2	2	6
11	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	1	2	5	4	2	1	2	2	3
12	0	1	1	1	1	1	0	1	1	1	3	3	2	3	4	6	2	4	6	2	2	6	2	1	3
13	2	3	3	3	3	1	(CM)	1	2	2	1	2	3	3	9	4	4	5	6	4	2	4	2	2	3
14	2	3	1	1	1	2	(CM)	1	2	1	0	1	2	1	4	6	5	3	4	2	5	4	1	1	2
15	2	1	1	1	1	(CM)	0	(CM)	0	1	1	1	1	3	4	4	4	3	3	1	1	0	1	1	2
16	1	0	0	1	2	2	2	2	1	2	2	2	4	5	4	5	6	5	4	3	1	0	0	0	2
17	(CM)	0	0	1	1	1	1	0	0	1	2	1	2	4	4	2	1	5	3	0	2	0	1	0	5
18	0	0	1	1	1	0	1	0	1	1	2	1	2	1	2	2	1	3	4	2	3	3	2	2	4
19	0	2	3	3	4	2	2	1	2	4	4	4	2	4	5	5	4	4	5	6	8	3	7	4	8
20	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	5	6	8	3	4	2	2	4	4	1
21	2	4	5	6	4	3	3	2	2	6	4	5	5	6	2	5	3	3	6	4	1	3	2	3	4
22	1	3	0	0	2	3	2	1	8	8	7	9	9	10	8	8	7	6	4	4	4	1	4	2	6
23	4	2	1	2	1	1	1	1	2	2	1	1	3	3	4	5	6	5	6	5	3	5	5	5	10
24	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	3	2	1	2	3	4	4	2	4	4
25	7	6	4	3	6	7	8	10	13	12	11	10	10	11	11	11	10	4	0	0	3	1	2	3	1
26	2	2	1	2	3	1	1	1	1	2	4	2	7	8	7	4	3	5	6	6	1	2	3	6	8
27	2	0	1	0	1	2	3	3	3	3	5	5	5	6	6	6	7	4	3	2	3	4	6	6	7
28	6	8	8	8	8	0	1	2	7	9	11	12	12	13	12	9	8	6	3	5	3	6	6	6	13
29	3	7	7	8	5	5	7	7	8	8	8	11	10	8	8	7	7	5	4	4	4	5	6	6	7
30	1	4	0	1	4	4	5	4	3	4	2	1	1	2	4	4	4	4	3	1	2	1	0	0	5
AV	3	3	3	3	3	2	2	2	3	4	4	4	4	5	5	5	4	4	3	3	3	3	3	3	3
PK	8	8	8	8	8	7	8	10	13	12	11	11	12	13	12	11	10	8	7	8	10	11	9	6	13

WIND SPEED @ 60M
METERS/SEC

CB-TRACT
TRAILER AA23
SEPT 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK	
1	4	3	3	4	4	3	2	1	3	6	7	7	7	6	5	6	6	7	8	8	8	9	9	8	8	6	9
2	10	11	9	10	9	6	3	3	8	6	5	6	7	8	9	8	2	6	5	5	5	4	4	7	5	7	11
3	5	2	6	2	1	5	4	4	5	5	6	7	4	6	6	3	2	2	4	4	4	3	3	3	2	7	12
4	1	2	4	4	3	3	3	1	1	5	7	7	7	7	7	7	5	5	6	6	9	12	11	11	8	6	8
5	5	8	6	4	1	2	3	2	5	8	6	6	7	6	6	6	7	4	1	3	3	3	1	0	2	4	8
6	2	1	2	2	2	1	1	2	3	2	1	0	1	3	3	2	1	3	3	3	3	1	2	3	3	3	5
7	4	4	4	4	0	1	1	1	1	1	2	4	4	5	5	5	4	4	2	3	2	8	2	2	4	2	7
8	2	1	0	1	0	0	1	0	0	1	0	2	2	3	3	6	3	1	0	2	2	7	5	3	4	2	7
9	3	2	3	2	4	3	4	1	1	2	3	2	2	3	4	7	1	1	2	2	2	0	0	3	1	2	7
10	5	1	2	2	4	3	4	1	1	2	3	2	2	3	4	7	1	1	2	2	2	5	3	3	3	3	4
11	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	2	3	3	4	4	1	1	3	3	3	4
12	1	2	2	1	0	1	0	1	1	2	3	3	3	3	4	6	3	4	6	5	5	4	8	2	3	3	8
13	2	4	4	2	2	1	1	2	2	2	1	2	2	2	10	5	4	6	6	3	3	4	4	4	2	3	10
14	3	4	3	1	1	2	1	1	3	3	0	1	2	1	4	7	6	4	6	6	3	5	1	1	3	3	7
15	3	2	1	1	0	1	0	0	0	1	1	2	2	3	5	4	4	4	5	4	2	5	5	1	1	3	4
16	1	1	1	2	3	3	3	2	2	2	2	4	4	5	4	5	7	6	4	4	4	1	0	0	0	2	7
17	0	1	1	2	1	1	2	1	0	2	3	3	4	5	4	4	6	4	4	5	3	3	4	6	4	2	6
18	0	1	(CM)	(CM)	0	0	1	0	1	2	2	2	2	2	2	2	1	4	4	5	3	3	4	6	4	2	6
19	2	1	2	2	2	2	2	2	3	4	4	4	3	4	5	6	4	5	7	8	10	10	9	7	7	4	10
20	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	2	5	7	9	4	6	2	3	2	4	3	3	9
21	2	5	5	8	5	4	4	3	6	6	4	5	5	7	6	5	3	4	7	7	6	3	4	3	3	5	8
22	1	2	1	1	3	4	2	1	9	8	7	8	9	11	9	8	8	7	5	6	5	4	4	5	5	5	11
23	7	4	1	4	2	0	1	1	2	2	1	1	3	4	4	6	6	6	8	8	7	4	6	7	4	4	8
24	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	2	3	2	(CM)	3	4	5	6	5	5	5	5	6
25	8	7	5	4	7	8	10	11	14	13	13	11	11	11	12	12	11	5	1	1	4	1	2	2	8	8	14
26	3	2	2	2	3	1	1	2	4	2	4	3	6	9	8	5	7	6	7	8	2	4	5	6	4	4	7
27	4	2	1	1	2	3	3	4	3	4	6	6	6	6	6	6	7	5	4	2	3	4	6	6	4	4	7
28	6	9	8	10	10	2	3	4	8	10	12	12	13	13	13	10	9	7	6	7	6	6	4	7	8	4	13
29	5	9	8	10	8	7	9	8	9	8	9	12	11	9	8	8	8	5	4	4	5	6	7	8	8	8	12
30	1	6	1	3	4	5	5	4	3	4	2	2	1	3	4	4	4	4	4	2	3	3	2	1	3	3	6
AV	3	4	3	3	3	3	3	2	3	4	4	4	5	5	6	6	5	5	4	4	4	4	4	4	4	4	14
PK	10	11	9	10	10	8	10	11	14	13	13	12	13	13	13	12	11	9	8	9	12	12	11	11	8	4	14

Refer to pages II-589 through II-624

Mechanical Recordering Instrument was removed and replaced by an R.A. solar powered data acquisition system installed July 25, 1981. Monitoring of data and maintenance of the instrumentation was contracted to WestAq Corp. upon purchase of the equipment.

WIND SPEED @10M

C-B TRACT
MRI AD56
September 1981

DATA NOT AVAILABLE AT REPORT TIME

WIND DIRECTION 1010M
1010M

CR-TRACT
TRAILER AB20
SEPT 1981
OCCIDENTAL OIL SHALE INC.

HOURLY (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	PREV
1	102	121	121	135	139	139	137	124	109	226	197	191	236	253	286	272	268	258	224	144	48	93	106	103	159
2	112	125	131	124	127	107	99	129	123	226	251	224	239	250	236	231	322	36	330	34	90	86	118	115	135
3	115	124	112	104	113	125	107	128	128	153	123	125	136	238	246	142	(CM)	43	73	93	96	110	103	98	118
4	124	121	122	131	125	129	315	307	120	151	176	191	241	206	246	249	243	252	208	109	122	134	74	95	161
5	112	100	107	106	32	35	109	45	(CM)	169	141	191	209	204	245	237	278	(CM)	(CM)	280	284	292	292	305	213
6	300	(CM)	141	155	264	285	289	282	271	273	259	240	257	285	247	(CM)	152	117	120	(CM)	99	57	(CM)	(CM)	245
7	(CM)	(CM)	(CM)	34	34	(CM)	(CM)	(CM)	(CM)	38	297	278	275	308	322	256	253	148	(CM)	53	107	107	114	(CM)	354
8	(CM)	(CM)	99	95	101	110	121	126	(CM)	298	307	287	294	280	322	327	331	345	43	114	112	12	107	117	45
9	131	132	119	121	119	122	141	143	149	141	107	0	163	286	356	74	93	130	36	115	104	121	109	130	115
10	103	90	120	130	138	139	139	141	139	127	359	29	124	325	251	163	104	136	83	119	126	126	133	143	122
11	117	121	135	125	135	(CM)	123	134	137	174	294	284	279	332	67	176	357	352	45	94	77	104	108	127	110
12	113	105	119	138	111	121	123	136	140	212	297	176	211	149	247	243	241	103	114	121	124	117	81	(CM)	141
13	94	139	140	137	136	130	131	141	121	124	202	301	286	277	107	128	131	109	109	22	118	123	132	122	128
14	127	118	131	103	129	135	(CM)	137	127	125	115	128	291	239	119	168	127	136	133	53	115	53	93	112	123
15	125	104	107	(CM)	(CM)	101	120	137	(CM)	286	241	292	282	281	328	343	288	1	36	118	104	108	121	114	91
16	107	109	117	(CM)	105	(CM)	124	142	(CM)	306	297	276	287	326	331	310	326	345	356	83	94	(CM)	99	115	39
17	110	104	117	(CM)	124	(CM)	121	139	133	295	289	278	323	343	331	344	25	29	55	103	104	105	108	121	78
18	111	132	100	104	105	100	107	(CM)	309	308	295	289	278	281	285	287	268	335	37	111	101	99	97	101	68
19	114	104	104	90	99	136	135	135	137	137	246	241	257	284	152	155	145	126	109	96	99	109	113	110	128
20	109	107	94	110	110	114	116	123	134	302	305	308	307	253	288	273	291	308	118	125	100	127	122	270	124
21	(CM)	101	104	92	101	112	131	129	104	197	287	251	242	258	278	295	304	(CM)	79	99	109	119	123	41	125
22	117	127	130	121	125	122	109	129	153	173	176	199	222	241	247	251	239	248	243	97	98	101	95	93	154
23	106	98	111	101	107	109	115	136	133	111	95	55	294	281	267	266	251	231	126	87	104	107	94	99	114
24	95	95	109	110	90	96	97	98	101	251	272	107	99	69	105	125	(CM)	119	109	107	99	102	94	98	103
25	104	105	(CM)	(CM)	97	100	107	126	187	181	209	198	207	224	222	241	273	316	(CM)	79	(CM)	(CM)	(CM)	(CM)	168
26	114	113	(CM)	(CM)	81	117	127	134	132	177	280	291	281	291	294	296	304	258	248	85	101	101	113	109	143
27	104	112	132	117	125	130	132	129	122	97	190	188	231	176	207	203	215	208	(CM)	101	118	124	125	116	145
28	130	115	93	95	96	96	101	109	130	193	200	194	202	226	240	218	241	234	105	101	98	97	102	87	138
29	124	110	119	99	97	96	94	101	165	194	204	238	211	210	216	206	199	253	127	101	90	99	99	102	142
30	101	107	107	99	(CM)	291	293	287	301	6	14	177	273	271	288	338	345	345	(CM)	(CM)	(CM)	(CM)	102	102	344
PV	112	113	117	112	110	115	119	129	136	190	246	239	250	264	265	244	272	328	90	95	102	103	107	109	123

WIND DIRECTION @ 104
DEGREES

CB-TRACT
TRAILER AA23
SEPT 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	PREV
1	105	111	119	118	113	106	86	88	226	216	222	215	213	228	249	242	235	240	224	204	206	206	208	207	191
2	210	212	210	210	207	220	165	161	225	233	220	229	231	222	228	226	289	45	12	39	69	41	109	109	205
3	165	136	120	122	122	150	145	80	148	195	178	170	216	233	233	174	173	343	95	162	181	(CM)	230	41	160
4	111	125	140	124	124	140	114	112	110	222	206	218	214	229	235	226	232	223	215	197	198	199	197	191	182
5	165	141	165	147	251	160	144	209	192	199	201	211	217	213	220	240	288	323	318	341	320	330	240	299	228
6	297	352	323	312	328	(CM)	292	306	300	301	253	24	315	301	280	317	202	146	147	160	341	184	131	251	292
7	272	259	267	243	289	287	267	231	230	318	3	335	324	318	330	235	245	225	159	199	188	176	161	144	258
8	119	230	210	225	166	135	106	95	55	3	264	219	248	285	276	310	6	60	308	182	179	227	135	141	201
9	152	202	225	278	58	197	211	180	289	53	(CM)	226	184	302	350	63	82	186	230	118	152	143	144	125	174
10	200	94	156	187	199	175	220	199	98	25	327	34	83	317	242	191	225	115	174	121	208	176	166	229	177
11	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	317	266	178	197	77	119	163	180	()
12	203	183	184	218	90	198	243	90	45	223	194	192	197	187	235	244	230	142	183	168	111	146	166	135	182
13	127	131	142	138	123	151	(CM)	101	84	65	354	314	327	66	128	101	168	150	124	221	187	129	149	159	128
14	131	171	211	273	138	155	260	191	193	(CM)	114	71	61	344	154	199	155	139	192	139	141	158	90	190	159
15	153	121	123	202	234	90	243	(CM)	16	354	22	20	13	311	318	16	327	13	28	159	221	238	225	225	329
16	217	8	297	236	247	238	235	252	304	290	311	320	321	324	344	351	343	5	14	53	158	172	225	66	301
17	245	224	312	243	(CM)	233	225	146	297	299	312	332	6	14	359	356	39	41	43	237	226	221	199	214	283
18	193	235	247	192	217	222	(CM)	344	316	323	314	319	282	325	336	17	339	338	328	240	212	209	200	121	277
19	90	94	113	107	143	169	147	81	208	212	217	209	263	167	148	175	130	182	214	211	211	213	211	204	174
20	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	272	254	318	115	144	131	153	95	289	()
21	251	145	194	177	156	111	120	111	214	220	236	237	233	234	262	315	341	236	219	208	246	124	153	107	201
22	99	181	194	21	185	163	138	99	205	204	220	220	225	229	235	220	222	233	221	213	206	156	99	124	191
23	194	197	88	177	128	101	147	126	65	4	50	302	296	291	235	251	251	233	204	195	132	160	181	189	184
24	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	75	57	78	199	191	180	177	146	154	()
25	178	169	157	166	183	182	191	191	200	205	225	208	223	230	301	319	236	301	53	71	225	233	212	220	204
26	219	222	259	253	243	110	197	96	45	335	316	332	303	298	306	329	267	251	217	206	(CM)	199	219	209	254
27	146	76	111	129	128	100	107	97	97	182	219	216	225	219	227	230	234	227	216	168	153	164	163	162	168
28	173	185	184	191	191	43	82	175	204	209	220	223	219	230	232	225	227	242	219	203	211	189	217	189	203
29	207	193	190	187	197	199	188	185	202	212	217	223	219	218	224	218	218	242	221	205	211	213	217	215	209
30	39	210	90	332	288	285	296	293	316	18	32	14	20	340	337	358	357	3	36	319	256	240	234	197	330
PV	173	173	178	198	178	163	183	141	209	261	251	256	257	271	253	254	255	245	196	184	188	182	178	178	209

WIND DIRECTION @ 30M
DEGREES

CB-TRACT
THAILER AA23
SEPT 1931
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	PREV
1	102	104	109	107	102	118	107	97	220	212	218	210	207	223	243	238	228	233	216	199	202	202	205	204	186
2	208	209	208	206	203	214	164	177	220	229	216	222	227	217	223	220	278	39	10	32	64	38	101	106	202
3	153	125	115	107	117	142	144	76	140	185	170	161	212	228	228	166	160	344	87	141	164	171	190	185	155
4	114	145	147	116	116	129	100	99	93	214	198	210	210	222	230	220	226	218	210	189	191	194	191	187	180
5	161	173	155	182	263	153	175	200	185	192	195	205	210	206	214	234	284	321	324	338	318	338	233	295	222
6	297	331	321	314	324	30	287	303	295	298	248	35	317	297	277	314	200	129	123	128	94	153	92	353	317
7	275	261	268	295	292	289	278	222	230	320	351	333	320	312	327	234	248	230	140	155	150	140	125	112	263
8	85	135	207	(CM)	(CM)	106	81	94	60	358	247	211	241	281	268	307	1	55	323	162	164	222	133	126	149
9	137	189	226	299	37	(CM)	197	135	304	49	236	218	176	297	349	57	51	153	217	90	144	138	139	112	154
10	191	75	122	172	197	195	204	146	90	21	325	25	66	313	236	178	204	103	160	109	170	191	134	211	161
11	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	310	264	187	193	83	88	136	153	()
12	176	161	165	172	90	158	349	88	45	225	189	184	188	180	233	240	227	126	166	167	140	131	156	143	166
13	110	115	140	134	124	158	(CM)	95	78	58	3	307	324	60	120	94	154	142	114	202	187	121	127	158	119
14	138	152	155	284	114	136	(CM)	201	176	190	90	58	52	343	148	192	146	125	180	122	119	142	81	138	138
15	135	131	184	83	250	(CM)	32	(CM)	19	352	22	20	11	307	312	10	323	7	17	90	223	261	236	243	352
16	253	249	290	251	262	264	258	247	300	281	303	316	315	319	339	346	338	358	6	35	75	86	229	8	308
17	(CM)	246	331	263	(CM)	243	232	139	304	290	307	327	3	9	354	349	33	36	38	341	241	270	214	151	310
18	164	158	217	214	220	201	242	339	311	316	311	315	278	321	329	10	333	336	330	264	211	202	198	199	268
19	124	119	105	101	119	150	141	96	201	206	211	202	258	158	138	163	126	174	210	205	207	207	204	200	168
20	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	216	264	247	314	101	132	113	137	103	285	()
21	260	133	186	159	144	126	133	124	204	215	232	230	228	230	258	312	336	233	219	204	220	89	133	82	194
22	55	152	171	32	129	136	130	118	199	197	215	215	220	223	229	215	216	229	218	212	201	191	206	202	191
23	147	149	95	189	175	69	139	117	63	3	51	284	290	284	229	245	244	228	205	192	128	149	178	188	187
24	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	17	101	68	52	58	201	188	176	169	153	157	()
25	169	158	142	163	175	174	185	185	194	199	219	202	217	225	226	224	234	296	354	14	228	266	208	225	206
26	221	224	300	270	243	124	114	92	32	330	312	327	295	291	300	304	263	247	213	204	182	196	199	199	251
27	196	168	112	194	171	136	119	104	92	172	209	210	219	214	221	224	228	220	222	161	131	152	151	150	176
28	164	178	179	181	181	61	132	176	197	201	215	217	213	225	226	219	221	227	213	197	191	183	187	183	194
29	191	184	140	178	187	188	179	176	195	206	211	218	213	212	217	213	212	239	221	192	199	207	218	212	202
30	355	209	117	290	298	285	295	290	311	12	31	12	6	331	330	351	350	357	29	2	284	257	263	215	324
PV	167	169	166	190	174	154	162	139	194	249	244	248	253	267	249	249	251	248	194	166	172	173	172	177	199

WIND DIRECTION @ 60M
DEGREES

CB-TRACT
TRAILER AA23
SEPT 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	PREV
1	131	129	132	132	127	169	172	151	230	222	225	218	216	230	251	245	240	245	228	212	217	216	218	217	202
2	220	219	219	216	213	223	185	200	228	239	223	230	236	224	230	229	285	51	24	44	75	55	111	119	212
3	163	141	136	133	152	153	158	89	152	195	181	171	219	236	235	176	169	353	101	147	172	181	186	197	167
4	194	205	168	132	133	143	115	107	98	219	205	218	218	229	239	227	234	227	220	201	201	203	201	198	193
5	181	185	170	191	171	171	187	210	192	201	204	212	217	213	222	240	292	327	337	350	329	358	241	300	230
6	302	323	325	331	345	55	296	312	306	312	264	45	332	308	292	324	229	135	125	130	120	131	95	40	334
7	295	284	291	313	311	306	302	243	233	337	2	344	330	321	338	253	268	255	142	152	142	141	131	138	286
8	95	106	180	298	270	225	111	139	85	253	253	219	247	288	277	318	10	68	341	168	169	231	158	143	203
9	154	205	243	265	21	309	274	138	294	65	225	219	183	306	0	70	55	119	68	111	156	156	161	125	160
10	201	78	126	194	218	220	218	209	105	38	335	31	69	327	247	181	217	98	177	118	143	125	122	137	153
11	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	318	282	210	207	207	69	136	150	()
12	169	174	168	178	180	163	217	95	66	237	198	193	197	191	241	248	238	136	178	177	169	138	166	172	181
13	134	131	163	159	138	153	121	121	94	67	27	317	334	70	134	107	158	157	129	198	203	137	136	167	133
14	154	162	164	241	114	138	143	225	192	204	149	60	65	348	159	203	161	134	187	125	126	146	109	156	152
15	145	160	202	90	156	229	4	243	32	2	36	32	21	316	322	22	332	18	25	77	(CM)	(CM)	270	256	7
16	262	261	268	273	290	296	289	269	304	289	309	327	324	328	347	354	349	8	19	41	64	66	270	349	318
17	53	291	282	275	9	250	269	217	315	297	315	337	16	14	2	358	46	50	48	9	277	321	234	114	332
18	140	139	(CM)	(CM)	258	174	235	54	323	323	321	331	291	332	336	16	341	346	344	300	243	223	213	213	298
19	224	178	142	114	127	172	169	177	210	216	221	214	265	169	148	172	139	187	225	223	221	222	221	221	192
20	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	231	258	323	106	138	125	144	131	292	()
21	278	148	202	162	158	160	169	177	212	225	240	238	236	237	266	316	340	243	231	223	234	79	135	89	210
22	45	161	175	354	119	141	159	175	208	205	221	223	228	231	236	223	224	236	232	227	221	217	218	218	208
23	212	214	145	205	211	0	192	132	86	17	57	283	299	292	237	251	251	237	217	204	149	166	195	201	212
24	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	84	68	(CM)	224	207	194	184	174	177	()
25	174	172	157	181	188	187	196	196	203	209	227	210	225	232	233	231	241	297	308	308	259	275	236	253	223
26	246	237	323	309	265	222	114	115	41	337	321	337	305	300	310	314	273	255	226	241	213	214	216	219	268
27	215	204	185	186	187	174	155	137	117	181	218	219	226	221	228	230	235	228	241	187	136	167	167	165	193
28	180	194	196	195	193	186	194	149	204	209	222	224	221	232	232	227	229	234	223	214	204	199	197	199	208
29	201	194	188	188	194	194	188	187	204	213	219	225	221	220	224	220	220	246	235	208	218	225	229	224	212
30	335	226	228	282	322	304	310	304	323	27	46	22	24	339	339	0	0	11	40	24	313	284	295	263	332
PV	169	185	189	210	194	193	191	174	196	256	246	255	261	275	258	256	262	262	206	180	187	175	185	188	216

WIND DIRECTION @10M

C-B TRACT
MRI AD42
September 1981

Refer to pages II-589 through II-624

Mechanical Recordering Instrument was removed and replaced by an R.A. solar powered data acquisition system installed July 25, 1981. Monitoring of data and maintenance of the instrumentation was contracted to WestAq Corp. upon purchase of the equipment.

WIND DIRECTION @10M

C-B TRACT
MRI AD56
September 1981

DATA NOT AVAILABLE AT REPORT TIME

WIND DIRECTION AND
VECTOR AVERAGE VELOCITY (DEG & MPS)
10 METER LEVEL

CR-TRACT
TRAILER AR20
SEPT 1941
OCCIDENTAL OIL SHALE, INC.

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	VECTOR DIR VEL	
1	102	121	121	135	139	139	137	124	109	226	197	191	236	253	286	272	268	258	224	144	48	93	106	103	164	1.2
2	112	125	131	124	127	107	99	129	123	226	251	224	239	250	236	231	322	36	330	39	90	86	118	115	173	0.7
3	115	129	112	104	113	125	107	128	128	153	123	125	136	238	216	142	***	43	73	93	96	110	103	98	127	1.8
4	124	121	122	131	125	129	315	307	120	151	176	191	241	206	246	249	243	262	208	109	122	134	78	95	156	1.3
5	112	90	107	106	32	35	109	45	***	169	181	191	209	204	246	237	278	***	***	280	284	292	292	305	217	0.6
6	300	***	151	155	264	285	289	282	271	273	259	240	257	285	247	***	152	117	120	***	99	57	***	***	248	0.5
7	***	***	***	34	34	***	***	***	***	38	297	278	275	308	322	256	253	148	***	59	107	107	114	***	294	0.8
8	***	***	99	95	101	110	121	126	***	298	307	287	294	280	322	327	331	345	43	114	112	12	107	117	357	0.3
9	131	132	119	121	119	122	141	143	149	141	107	0	163	286	356	74	93	130	36	115	104	121	109	130	113	0.9
10	103	90	120	130	138	139	139	141	139	127	359	29	124	325	251	163	104	136	83	119	126	126	133	143	124	0.8
11	117	121	135	125	135	***	123	139	137	173	294	284	279	332	67	176	357	352	45	94	77	104	108	127	119	0.4
12	113	109	119	138	111	121	123	136	140	212	297	176	211	149	247	243	281	103	114	121	124	117	81	***	135	1.2
13	94	139	140	137	136	130	131	141	121	124	202	301	286	277	107	128	131	109	109	22	118	123	132	122	126	2.2
14	127	116	131	103	129	135	***	137	127	125	115	128	291	239	119	168	127	136	133	53	115	53	93	112	123	1.4
15	125	109	107	***	***	101	120	137	***	286	241	292	282	281	328	343	288	1	36	118	104	108	121	114	47	0.1
16	107	109	117	***	105	***	129	142	***	306	297	276	287	326	331	310	326	345	356	83	94	***	99	115	332	0.7
17	110	104	117	***	124	***	121	139	133	295	289	278	323	343	331	344	25	29	55	103	104	105	108	121	45	0.3
18	111	132	100	104	105	100	107	***	309	308	295	249	274	281	285	287	268	335	37	111	101	99	97	101	31	0.2
19	114	104	104	90	99	136	135	135	137	137	246	281	257	284	152	155	145	126	109	96	99	109	113	110	133	1.5
20	109	107	94	110	110	114	116	123	134	302	305	308	307	253	288	273	291	308	118	125	100	127	122	270	287	0.3
21	***	101	104	92	101	112	131	129	104	197	287	251	242	258	278	295	304	***	79	99	109	119	123	81	142	0.5
22	117	127	130	121	125	122	109	129	153	173	176	199	222	241	247	251	239	248	243	97	98	101	95	93	185	1.3
23	106	98	111	101	107	109	115	136	133	111	95	55	298	281	267	266	251	231	126	87	104	107	94	99	122	0.8
24	95	95	109	110	90	96	97	98	101	251	272	107	99	69	105	125	***	119	109	107	99	102	54	98	105	0.7
25	103	105	***	***	97	100	107	126	187	181	209	188	207	224	222	241	273	316	***	79	***	***	***	***	208	1.8
26	118	113	***	***	81	117	127	134	132	177	280	291	281	291	294	296	304	258	248	85	101	101	113	109	276	0.6
27	109	112	132	117	125	130	132	129	122	97	190	188	231	176	207	203	215	204	***	101	118	124	125	116	146	2.0
28	130	115	93	95	96	96	101	109	130	193	200	194	202	226	240	218	241	234	105	101	98	97	102	87	170	1.6
29	123	110	119	99	97	96	94	101	165	194	204	238	211	210	216	206	199	253	127	101	90	99	99	102	163	1.3
30	101	107	107	99	***	291	293	287	301	6	14	177	273	271	288	338	345	345	***	***	***	***	102	102	329	0.5
VD	115	117	119	118	117	120	122	131	136	203	234	235	251	259	254	237	271	307	85	100	105	107	109	109	144	
VV	1.8	1.8	1.5	1.3	1.2	1.4	1.4	1.8	1.5	0.8	0.9	1.3	1.8	2.0	1.5	1.3	1.1	0.2	0.7	1.2	1.2	1.5	1.7	1.5		0.7

TOTAL NUMBER OF OBSERVATIONS = 668

NOTE: **** = MISSING DATA

WIND DIRECTION AND
VECTOR AVERAGE VELOCITY (DEG & MPS)
10 METER LEVEL

CR-TRACT
TRAILER AA23
SEPT 1961
OCCIDENTAL OIL SHALE, INC.

DAY	HOUR (LOCAL STANDARD TIME)											VECTOR															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DIR	VEL	
1	105	111	119	118	113	106	86	88	226	216	222	215	213	228	249	242	235	240	224	204	206	206	208	207	207	207	2.5
2	210	212	210	210	207	220	165	161	225	233	220	229	231	222	228	226	289	45	12	39	69	41	109	109	212	2.0	
3	165	136	120	122	122	150	145	80	148	195	178	170	216	233	233	174	173	343	95	162	181	***	230	41	167	1.8	
4	111	125	140	124	124	140	114	112	110	222	206	218	214	229	235	226	232	223	215	197	198	199	197	191	202	3.1	
5	165	181	165	187	251	160	184	209	192	199	201	211	217	213	220	240	288	323	318	341	320	330	240	299	217	2.0	
6	297	352	323	312	328	***	292	306	300	301	253	24	315	301	240	317	202	146	147	160	341	184	131	251	289	0.6	
7	272	259	267	293	289	287	257	231	230	318	3	335	324	318	330	235	245	225	159	199	188	176	161	144	277	0.9	
8	119	230	210	225	186	135	106	95	55	3	264	219	248	285	276	310	6	60	308	182	179	227	135	141	231	0.5	
9	152	202	225	278	58	197	211	180	289	53	***	226	184	302	350	63	82	186	230	118	152	143	144	125	156	0.6	
10	200	94	156	187	199	175	220	199	98	25	327	34	83	317	242	191	225	115	174	121	208	176	166	229	191	0.6	
11	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	317	266	178	197	77	119	163	180	***	***	
12	208	183	184	218	90	198	243	90	45	223	194	192	197	187	236	244	230	142	183	168	111	146	166	135	186	1.4	
13	127	131	142	138	123	151	***	101	84	65	354	314	327	66	128	101	168	150	124	221	187	129	149	159	129	1.5	
14	131	171	211	273	138	155	260	191	193	***	114	71	61	344	158	199	155	139	192	139	141	158	90	190	162	1.2	
15	153	121	123	202	234	90	243	***	16	354	22	20	13	311	318	16	327	13	28	159	221	238	225	225	333	0.4	
16	217	8	297	236	247	238	235	252	304	290	311	320	321	324	344	351	343	5	14	53	158	172	225	66	324	1.2	
17	245	224	312	243	***	233	225	146	297	299	312	332	6	14	359	356	39	41	43	237	226	221	199	214	348	0.7	
18	193	235	247	192	217	222	***	344	316	323	314	319	282	325	336	17	339	338	328	240	212	209	200	121	286	0.7	
19	90	99	113	107	143	169	147	81	208	212	217	209	263	167	148	175	130	182	214	211	211	213	211	204	183	2.0	
20	***	***	***	***	***	***	***	***	***	***	***	***	***	***	219	272	254	318	115	144	131	153	95	289	***	***	
21	251	145	194	177	156	111	120	111	214	220	236	237	233	234	262	315	341	236	219	208	246	124	153	107	210	1.7	
22	99	181	194	21	186	163	138	99	205	204	220	220	225	229	235	220	222	233	221	213	206	156	99	124	214	2.8	
23	194	197	88	177	128	101	147	126	65	4	50	302	296	291	235	251	251	233	208	195	132	160	181	189	208	1.2	
24	***	***	***	***	***	***	***	***	***	***	***	***	***	45	117	75	57	78	199	191	180	177	146	154	***	***	
25	178	169	157	166	183	182	191	191	200	205	225	208	223	230	231	229	238	301	53	71	225	233	212	220	210	4.3	
26	219	222	259	253	243	110	197	96	45	335	316	332	303	298	306	310	267	251	217	206	***	199	219	209	275	1.6	
27	146	76	111	129	128	100	107	97	97	182	219	216	225	219	227	230	234	227	216	168	153	164	163	162	191	1.9	
28	173	185	184	191	191	43	82	175	204	209	220	223	219	230	232	225	227	232	219	203	202	189	217	189	211	4.3	
29	207	193	190	187	197	199	188	185	202	212	217	223	219	218	224	218	218	242	221	205	211	213	217	215	210	4.3	
30	39	210	90	332	288	285	296	293	316	18	32	14	20	340	337	358	357	3	36	319	256	240	234	197	324	1.2	
VD	178	177	172	189	187	170	174	160	203	221	227	225	239	250	245	242	250	255	200	189	191	183	179	183	210		
VV	1.2	1.5	1.3	1.1	1.1	1.0	0.9	0.7	1.4	1.8	2.2	2.2	2.3	2.5	2.4	2.0	1.5	0.8	0.9	1.5	1.7	1.7	1.5	1.3		1.3	

TOTAL NUMBER OF OBSERVATIONS = 668

NOTE: *** = MISSING DATA

WIND DIRECTION AND
VECTOR AVERAGE VELOCITY (DEG & MPS)
30 METER LEVEL

CH-TRACT
TRAILER AA23
SEPT 1941
OCCIDENTAL OIL SHALE, INC.

DAY	HOUR (LOCAL STANDARD TIME)																								VECTOR		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DIR	VEL	
1	102	104	109	107	102	118	107	97	220	212	218	210	207	223	243	238	228	233	216	199	202	202	205	204	200	200	3.6
2	208	209	208	206	203	214	164	177	220	220	216	222	227	217	223	220	278	39	10	32	64	38	101	106	208	3.1	
3	153	125	115	107	117	142	144	76	140	185	170	161	212	224	229	166	160	344	87	141	164	171	190	185	155	2.6	
4	114	195	147	116	116	129	100	99	93	214	198	210	210	222	230	220	226	218	210	189	191	194	191	187	195	4.3	
5	161	173	155	182	263	153	175	200	185	192	195	205	210	206	214	234	284	321	324	339	318	338	233	295	209	2.6	
6	297	331	321	314	329	30	287	303	295	298	248	35	317	297	277	314	200	129	123	128	94	153	92	353	301	0.6	
7	275	261	268	295	292	289	278	222	230	320	351	333	320	312	327	234	248	230	140	155	150	140	125	112	279	1.1	
8	85	135	207	***	***	106	81	94	60	358	247	211	241	281	268	307	1	55	323	162	164	222	133	126	212	0.5	
9	137	189	226	299	37	***	197	135	304	49	236	218	176	297	349	57	51	153	217	90	144	138	139	112	131	0.8	
10	191	75	122	172	197	195	204	186	90	21	325	25	66	313	236	178	204	103	160	109	170	191	134	211	171	0.9	
11	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	310	264	187	193	83	88	136	153	***	***	
12	176	161	165	172	90	158	349	88	45	225	189	184	188	180	233	240	227	126	166	167	140	131	156	143	170	1.9	
13	110	115	140	134	124	158	***	95	78	58	3	307	324	60	120	94	154	142	114	202	187	121	127	158	121	2.2	
14	138	152	155	284	114	136	***	201	176	190	90	58	52	343	148	192	146	125	180	122	119	142	81	138	146	1.9	
15	135	131	184	83	250	***	32	***	19	352	22	20	11	307	312	10	323	7	17	90	223	261	236	243	351	0.8	
16	253	289	290	251	262	264	258	247	300	281	303	316	315	319	339	346	338	358	6	35	75	86	229	8	324	1.7	
17	***	246	331	263	***	243	232	139	304	290	307	327	3	9	354	349	33	36	38	341	241	270	214	151	354	1.3	
18	164	158	217	214	220	201	242	339	311	316	311	315	278	321	329	10	333	336	330	264	211	202	198	199	276	0.8	
19	124	119	105	101	119	150	141	96	201	206	211	202	258	158	138	163	126	174	210	205	207	207	204	200	181	3.1	
20	***	***	***	***	***	***	***	***	***	***	***	***	***	***	216	264	247	314	101	132	113	137	103	285	***	***	
21	260	133	186	159	144	126	133	129	204	215	232	230	228	230	258	312	336	233	219	204	220	89	133	82	202	2.3	
22	55	152	171	32	129	136	130	118	199	197	215	215	220	223	229	215	216	229	218	212	201	191	206	202	208	4.0	
23	197	199	95	189	175	69	139	117	63	3	51	284	290	284	229	245	244	228	205	192	128	149	178	188	206	1.9	
24	***	***	***	***	***	***	***	***	***	***	***	***	***	17	101	68	52	58	201	188	176	169	153	157	***	***	
25	168	158	142	163	175	174	185	185	194	199	219	202	217	225	226	224	234	296	354	14	228	266	208	225	204	5.9	
26	221	224	300	270	243	124	114	92	32	330	312	327	295	291	300	304	263	247	213	204	182	196	199	199	262	2.1	
27	196	168	112	194	171	136	119	104	92	172	209	210	219	214	221	224	228	220	222	161	131	152	151	150	187	2.8	
28	164	178	179	181	181	61	132	176	197	201	215	217	213	225	226	219	221	227	213	197	191	183	187	183	203	6.5	
29	191	184	180	178	187	188	179	176	195	206	211	218	213	212	217	213	212	239	221	192	194	207	218	212	203	6.4	
30	355	209	117	290	298	285	295	290	311	12	31	12	6	331	330	351	350	357	29	2	284	257	263	215	319	1.8	
VD	174	170	165	176	174	167	168	159	194	213	220	219	233	244	237	234	244	253	196	180	179	176	170	177	201		
VV	1.8	2.3	1.9	1.7	1.5	1.5	1.3	1.1	1.9	2.3	2.8	2.9	3.1	3.3	3.1	2.6	2.0	1.0	1.4	2.2	2.5	2.4	2.4	1.9		1.8	

TOTAL NUMBER OF OBSERVATIONS = 668

NOTE: *** = MISSING DATA

WIND DIRECTION AND
VELOCITY AVERAGE VELOCITY (DEG & MPS)
60 METER LEVEL

CB-TRACT
TRAILER AA23
SEPT 1981
OCCIDENTAL OIL SHALE, INC.

DAY	HOUR										LOCAL STANDARD TIME							VECTOR								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DIR	VEL
1	131	129	132	132	127	169	172	151	230	222	225	218	216	230	251	245	240	245	228	212	217	216	218	217	214	4.7
2	220	219	219	216	213	223	185	200	228	239	223	230	236	224	230	229	285	51	24	44	75	55	111	119	215	3.8
3	163	141	136	133	152	153	158	89	152	195	181	171	219	236	235	176	169	353	101	147	172	181	186	197	167	3.3
4	198	205	168	132	133	143	115	107	98	219	205	218	218	229	239	227	234	227	220	201	201	203	201	198	205	5.0
5	181	185	170	191	270	171	187	210	192	201	204	212	217	213	222	240	292	327	337	350	329	358	241	300	217	3.0
6	302	323	325	331	345	55	296	312	306	312	264	45	332	308	292	324	229	135	125	130	120	131	95	40	327	0.6
7	295	284	291	313	311	306	302	243	233	337	2	344	330	321	338	253	268	255	142	152	142	141	131	138	299	1.4
8	95	106	180	298	270	225	111	139	85	8	253	219	247	288	277	318	10	68	341	168	169	231	158	143	224	0.6
9	154	205	243	265	21	309	274	138	294	65	225	219	183	306	0	70	55	119	68	111	156	156	161	125	141	0.9
10	201	78	126	194	218	220	218	209	105	38	335	31	69	327	247	181	217	98	177	118	143	125	122	137	177	1.1
11	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	318	282	210	207	207	69	136	150	***	***
12	169	176	168	178	180	163	217	95	66	237	198	193	197	191	241	248	238	136	178	177	169	138	166	172	183	2.4
13	134	131	163	159	138	153	121	121	94	67	27	317	334	70	134	107	158	157	129	198	203	137	136	167	137	2.5
14	158	162	164	291	114	138	143	225	192	204	149	60	65	348	159	203	161	134	187	125	126	146	109	156	159	2.3
15	145	160	202	90	156	229	4	243	32	2	36	32	21	316	322	22	332	18	25	77	***	***	270	256	4	0.8
16	262	261	268	273	290	286	289	269	304	289	309	327	324	328	347	354	349	8	19	41	64	65	270	349	333	2.2
17	53	291	282	275	9	250	269	217	315	297	315	337	16	19	2	358	46	50	48	9	277	321	234	114	1	1.4
18	140	139	***	***	258	174	235	54	323	323	321	331	291	332	336	16	341	346	344	300	243	223	213	213	288	1.1
19	224	178	142	114	127	172	169	177	210	216	221	214	265	169	148	172	139	187	225	223	221	222	221	221	202	3.8
20	***	***	***	***	***	***	***	***	***	***	***	***	***	***	231	275	258	323	106	138	125	144	131	292	***	***
21	278	148	202	162	158	160	160	177	212	225	240	238	236	237	266	316	340	243	231	223	234	79	135	89	213	2.9
22	45	161	175	354	119	141	159	175	208	205	221	223	228	231	236	223	224	236	232	227	221	217	223	218	218	4.7
23	212	214	145	205	211	0	192	132	86	17	57	283	299	292	237	251	251	237	217	204	149	166	195	201	218	2.7
24	***	***	***	***	***	***	***	***	***	***	***	***	***	12	98	84	68	***	224	207	194	184	174	177	***	***
25	179	172	157	181	188	187	196	196	203	209	227	210	225	232	233	231	241	297	308	308	259	275	236	253	215	6.8
26	246	237	323	309	265	222	119	115	41	337	321	337	305	300	310	314	273	255	226	220	213	214	216	219	267	2.7
27	215	204	195	186	187	174	155	137	117	181	218	219	226	221	228	230	235	228	241	187	136	167	167	165	201	3.5
28	180	194	196	195	193	186	194	189	204	209	222	224	221	232	232	227	229	234	223	214	204	199	197	199	213	7.9
29	201	194	188	188	194	194	188	187	204	213	219	225	221	220	224	220	220	246	235	208	218	225	229	224	211	7.4
30	335	226	228	282	322	304	310	304	323	27	46	22	24	339	339	0	0	11	40	24	313	284	295	263	331	2.2
VD	195	187	187	194	195	191	193	184	203	221	228	227	242	253	245	240	253	261	212	196	193	191	187	195	213	
VV	2.4	3.0	2.4	2.1	1.7	1.7	1.7	1.5	2.2	2.6	3.0	3.1	3.2	3.5	3.4	2.8	2.2	1.2	1.7	2.5	2.9	2.9	3.1	2.7		2.3

TOTAL NUMBER OF OBSERVATIONS = 672

NOTE: *** = MISSING DATA

CR-TWACT
TRAILER AB20
SEPT 1981
OCCIDENTAL OIL SHALE INC.

SIGMA HORIZ. WIND DIR. MIN
DEGREES

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	13	13	14	11	7	9	8	9	7	23	21	22	22	30	20	17	20	16	10	3	5	4	9	18	14	30
2	21	14	19	16	25	25	7	8	17	16	22	22	24	23	26	25	21	36	11	13	15	8	8	8	18	36
3	19	9	9	9	4	6	8	7	8	9	13	15	28	30	17	14	(CM)	11	8	9	13	5	6	7	11	30
4	10	7	8	8	10	8	11	2	11	15	18	20	27	22	22	22	20	15	11	8	20	22	14	15	14	27
5	12	8	10	13	14	9	3	3	(CM)	17	17	23	20	19	22	18	8	(CM)	(CM)	3	1	0	0	1	11	23
6	0	(CM)	0	0	6	0	0	2	7	7	4	3	5	11	7	(CM)	5	2	3	(CM)	2	4	(CM)	(CM)	4	11
7	7	(CM)	(CM)	0	0	(CM)	(CM)	(CM)	(CM)	0	9	13	11	17	14	11	8	0	(CM)	6	9	8	2	(CM)	7	17
8	12	(CM)	2	1	4	7	8	5	(CM)	3	7	10	8	13	15	14	16	9	8	6	6	12	9	13	8	16
9	9	7	8	9	4	8	6	5	6	5	8	17	26	11	11	22	17	5	9	3	13	6	7	9	10	26
10	10	6	6	4	4	5	3	1	3	6	11	7	0	16	11	13	7	3	6	8	7	10	5	4	7	16
11	7	7	6	6	2	(CM)	4	5	1	6	11	12	15	24	25	20	11	6	7	7	7	8	9	6	9	25
12	4	11	12	8	6	7	9	5	3	5	14	35	32	20	13	17	13	10	10	10	10	8	21	(CM)	13	35
13	6	10	6	5	6	7	(CM)	5	6	8	5	1	17	22	16	20	12	8	19	15	12	20	15	12	11	22
14	6	10	13	12	(CM)	7	12	8	(CM)	12	19	18	18	13	29	22	10	19	13	8	9	11	11	10	14	29
15	10	13	11	(CM)	6	(CM)	11	9	(CM)	14	15	14	18	28	24	21	19	14	11	8	7	(CM)	5	9	13	28
16	11	8	11	(CM)	11	(CM)	11	9	(CM)	17	8	11	33	35	34	22	27	16	11	6	8	8	10	10	15	35
17	10	10	11	(CM)	11	(CM)	11	9	3	17	7	14	11	12	10	8	7	15	8	9	11	11	14	16	10	16
18	10	7	10	10	9	11	9	(CM)	6	4	7	14	11	12	10	8	7	15	8	9	11	11	14	16	10	16
19	14	13	17	17	14	10	11	11	4	22	30	28	18	14	15	12	11	9	11	11	10	9	9	11	14	30
20	13	14	13	14	13	14	12	10	5	13	18	17	16	31	10	14	11	9	12	12	20	11	20	12	14	31
21	(CM)	11	12	7	5	9	6	9	8	21	17	23	24	19	15	9	5	(CM)	2	3	2	4	8	7	10	24
22	3	7	4	1	5	2	4	9	22	15	17	21	24	26	21	24	22	14	5	7	5	15	12	8	12	26
23	20	14	14	11	8	9	12	2	3	2	9	18	12	12	22	18	19	11	8	13	10	5	5	3	11	22
24	3	2	3	4	1	2	3	3	9	23	18	18	14	10	8	2	(CM)	2	4	8	2	3	5	5	7	23
25	5	5	(CM)	(CM)	2	2	3	10	23	25	24	24	25	24	25	21	16	10	(CM)	6	(CM)	(CM)	(CM)	(CM)	15	25
26	8	11	(CM)	(CM)	9	9	12	6	3	6	13	11	17	13	13	16	12	14	16	23	11	9	8	8	11	23
27	10	12	10	14	13	6	6	4	3	13	24	27	21	21	24	23	18	7	(CM)	7	15	9	9	6	13	27
28	4	9	10	7	6	7	10	8	11	23	24	25	25	23	24	24	21	18	7	8	7	8	7	10	14	25
29	9	11	13	10	8	8	7	6	21	21	23	22	25	26	23	26	21	19	4	7	5	6	7	12	14	26
30	4	12	10	12	(CM)	9	8	7	14	19	25	4	24	23	19	12	18	19	(CM)	(CM)	(CM)	(CM)	6	7	13	25
AV	9	9	10	8	8	8	8	6	9	13	15	17	19	20	18	17	14	12	9	9	9	9	9	9	12	36
PK	21	14	14	17	25	25	12	11	23	25	30	35	33	35	34	26	27	36	19	23	20	22	21	18		

SIGMA HORIZ. WIND DIR. @ 10M
DEGREES

CB-TRACT
TRAILER AA23
SEPT 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	10	6	7	8	7	9	9	27	25	13	14	15	15	19	20	20	18	10	8	6	6	6	7	7	12	27
2	9	8	9	10	11	16	14	22	14	11	12	18	18	15	14	13	14	11	11	9	12	7	8	11	12	22
3	9	9	7	23	28	6	16	9	10	12	11	15	22	18	18	36	19	18	6	5	7	(CM)	34	15	15	36
4	9	25	18	5	4	7	8	14	26	15	13	16	19	21	17	16	16	14	6	7	8	8	9	10	13	26
5	11	7	14	14	27	9	10	16	12	12	11	11	10	11	15	10	11	8	24	8	14	9	10	9	12	27
6	10	13	11	7	9	(CM)	8	8	8	9	16	39	27	13	10	20	9	6	8	5	14	9	16	14	13	39
7	7	5	6	7	8	8	8	9	14	24	39	36	20	13	13	13	14	15	11	8	17	9	9	12	14	39
8	14	7	7	13	13	6	10	24	31	27	21	20	21	13	26	18	12	11	7	6	5	9	19	5	14	31
9	7	6	8	8	16	14	4	14	39	27	(CM)	33	29	26	16	13	16	8	13	17	10	13	15	8	16	39
10	15	8	9	6	10	16	12	10	26	25	12	23	12	18	10	9	20	10	11	7	4	14	7	10	13	26
11	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	13	7	9	10	17	6	7	8	()	17
12	23	8	11	13	21	13	13	15	31	33	16	28	27	16	12	10	13	8	8	12	23	8	6	12	16	33
13	5	5	6	5	4	14	(CM)	13	17	26	31	34	26	30	7	17	9	8	9	8	10	15	13	8	14	34
14	13	13	20	5	6	7	19	6	9	(CM)	37	38	45	21	13	9	8	9	12	10	6	11	19	5	15	45
15	7	6	11	10	4	15	18	(CM)	42	28	35	39	33	30	17	11	12	15	7	9	3	19	9	7	17	42
16	15	10	11	6	7	5	4	9	11	21	34	30	18	18	18	13	11	10	6	11	15	16	5	10	13	34
17	11	7	8	8	(CM)	3	10	20	31	18	21	33	24	17	19	18	10	8	5	13	4	16	13	14	14	33
18	17	15	17	14	11	10	(CM)	15	12	17	22	46	31	39	30	19	32	14	7	6	7	11	32	40	20	46
19	17	12	8	7	6	7	9	10	19	14	20	21	16	15	17	11	17	4	6	6	6	6	7	19	12	21
20	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	13	12	11	10	9	14	7	17	18	()	18
21	13	12	12	6	7	13	11	27	36	13	14	22	18	18	11	11	11	17	7	6	20	10	16	10	14	36
22	20	7	19	11	10	8	23	19	10	12	16	15	14	13	12	12	11	9	5	4	4	15	35	33	14	35
23	12	16	16	19	17	12	8	9	15	23	31	32	22	28	21	16	12	9	7	11	17	9	6	9	16	32
24	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	7	10	15	7	27	3	5	11	12	()	27
25	4	4	9	9	6	6	8	8	8	10	11	11	12	12	11	11	11	12	9	13	4	13	15	9	9	15
26	7	7	14	12	16	14	13	15	31	15	14	27	16	14	11	18	23	10	6	11	(CM)	24	13	32	16	32
27	32	18	21	29	21	8	6	9	17	21	13	17	17	17	14	15	10	8	6	8	8	12	6	3	14	32
28	4	10	4	6	7	14	17	37	13	12	11	12	13	12	11	12	10	8	6	4	4	5	17	6	11	37
29	17	5	4	7	11	8	8	9	12	12	12	12	13	14	14	13	10	8	6	7	4	5	8	10	10	17
30	19	8	16	21	6	6	5	7	9	10	31	39	39	41	17	15	16	11	17	21	8	5	8	10	16	41
AV	12	10	11	11	11	10	11	15	20	18	20	25	21	19	15	14	14	11	9	9	9	11	13	13	14	
PK	32	25	21	29	28	16	23	37	42	33	39	46	45	41	30	36	32	18	24	27	23	24	35	40	46	

SIGMA HOPIZ. WIND DIR. @ 30M
DEGREES

CB-TRACT
TRAILER AA23
SEPT 1991
OCCIDENTAL OIL SHALE INC.

DAY	HOUR (LOCAL STANDARD TIME)																								AVE PEAK
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	8	5	5	5	4	16	22	32	30	11	12	15	13	17	18	14	16	10	6	5	5	5	5	6	32
2	5	6	7	9	10	15	18	29	14	11	11	16	16	14	11	12	13	11	10	9	9	5	7	8	12
3	7	7	6	8	16	5	13	8	8	11	9	14	21	16	16	30	21	16	5	3	4	21	21	31	29
4	27	13	11	3	3	5	4	11	31	14	12	14	18	18	14	16	15	12	5	5	7	8	9	9	31
5	11	7	7	13	28	10	12	16	11	10	10	10	9	11	13	8	10	7	16	7	8	15	10	11	28
6	10	17	10	6	9	13	7	6	6	8	19	42	29	10	9	16	9	4	6	4	17	10	16	11	42
7	6	5	6	7	8	7	7	13	30	31	28	25	15	12	10	13	13	12	8	7	9	10	7	5	29
8	4	16	29	(CM)	(CM)	12	6	16	23	21	21	20	12	23	18	11	11	9	9	4	4	7	21	4	29
9	4	5	7	15	12	(CM)	10	12	34	22	39	34	24	22	12	11	20	10	16	12	8	12	15	5	39
10	9	8	6	6	9	13	10	16	19	24	9	18	11	17	11	7	21	9	10	8	6	12	7	25	25
11	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	13	7	10	13	24	9	4	5	()
12	27	7	8	15	11	15	16	11	26	32	15	29	25	19	11	9	12	7	3	8	14	6	6	11	14
13	5	4	4	4	3	17	(CM)	11	14	21	30	34	26	26	5	14	7	8	8	10	8	11	13	9	32
14	10	14	14	7	14	5	(CM)	12	6	32	30	30	29	22	10	8	7	7	10	8	10	11	13	14	34
15	6	9	11	14	7	(CM)	12	(CM)	29	26	32	26	29	26	16	11	10	15	6	9	15	11	16	21	32
16	9	30	11	7	5	6	5	8	12	21	27	26	16	16	15	12	8	9	6	8	11	10	15	11	30
17	(CM)	14	9	9	(CM)	6	9	23	29	18	18	28	19	14	17	16	10	6	4	11	10	17	19	12	29
18	12	13	16	10	15	20	16	15	10	15	14	39	30	35	25	15	26	15	5	8	4	8	19	24	39
19	24	24	10	5	4	5	7	14	22	15	17	20	15	15	14	10	16	8	4	3	3	3	4	8	11
20	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	12	10	9	8	6	13	6	14	18	()
21	20	10	11	5	7	9	13	23	35	12	19	19	14	15	11	10	10	16	5	4	18	9	11	8	13
22	19	5	27	13	11	8	17	21	8	11	15	15	12	12	10	12	11	8	4	3	2	15	22	29	35
23	11	35	26	18	31	16	12	8	12	21	27	31	24	24	18	14	12	7	5	10	13	8	5	8	29
24	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	4	7	25	6	9	3	4	8	9	25
25	3	3	4	11	6	5	7	8	8	9	10	10	11	11	10	9	10	11	26	14	5	14	9	10	26
26	9	8	15	8	8	12	14	13	29	13	13	22	14	12	11	15	24	4	4	9	31	24	9	12	31
27	27	36	30	31	30	14	8	5	14	18	11	15	16	16	13	13	8	6	6	9	8	11	5	3	36
28	3	4	2	4	5	41	30	39	11	10	10	10	13	11	10	12	9	7	4	3	3	3	12	3	41
29	19	3	4	6	10	8	7	8	10	11	12	11	11	13	12	11	10	7	4	4	3	4	6	8	19
30	12	4	30	13	6	5	5	6	4	10	24	30	37	34	15	14	12	9	14	17	9	7	11	18	15
AV	12	12	12	10	11	12	11	15	18	17	18	22	19	17	13	13	13	10	8	8	9	10	11	12	13
PK	24	36	30	31	31	41	30	39	38	32	39	42	37	35	25	30	26	25	26	17	31	24	22	31	42

SIGMA HORIZ. WIND DIR. 60M
DEGREES

CR-TRACT
TRAILER AA23
SEPT 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK	
1	11	5	9	9	8	21	36	37	28	10	11	13	11	15	16	14	15	9	4	3	3	3	4	4	12	37	
2	3	4	5	6	8	14	21	23	12	10	11	13	15	14	10	12	12	10	9	8	11	5	7	7	10	23	
3	6	5	6	7	13	4	11	8	8	10	8	12	19	16	17	29	22	15	4	3	2	7	9	11	11	29	
4	16	10	5	4	4	6	5	12	33	12	10	13	16	15	12	14	13	11	4	4	6	6	7	8	10	33	
5	10	5	5	12	36	12	13	16	10	9	9	9	8	9	12	7	9	5	13	7	7	15	15	10	11	36	
6	4	12	11	6	10	11	7	5	6	8	26	44	34	9	9	16	9	4	5	4	17	19	7	11	12	44	
7	5	5	6	5	5	3	5	10	32	25	24	19	14	12	9	11	11	12	10	7	6	5	5	7	11	33	
8	4	8	13	10	8	16	6	17	20	27	20	18	11	11	21	16	12	7	6	6	3	5	24	5	13	27	
9	5	6	6	13	20	19	12	6	34	27	41	39	22	20	13	11	10	11	17	10	7	11	10	5	16	41	
10	9	10	3	5	5	9	6	14	20	20	9	15	10	14	9	5	26	6	12	14	7	17	5	8	11	26	
11	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	12	7	7	11	28	17	4	4	()	28	
12	17	7	6	11	22	9	13	10	34	32	14	27	23	19	10	7	14	6	2	3	7	5	4	16	13	34	
13	10	3	4	5	4	12	9	11	14	18	33	34	24	26	4	12	7	7	8	10	8	8	8	6	12	34	
14	7	5	6	9	7	3	11	10	5	7	34	32	27	22	8	6	6	8	8	8	5	7	10	8	11	34	
15	5	7	8	10	18	15	4	21	41	30	34	24	24	28	15	12	9	15	6	11	(CM)	(CM)	24	7	17	41	
16	8	6	11	5	3	4	4	5	12	17	24	23	15	14	14	11	7	9	7	7	13	12	11	9	10	24	
17	12	11	10	5	8	7	4	19	35	18	17	27	18	13	17	18	9	6	4	6	8	13	18	14	13	35	
18	9	12	(CM)	(CM)	14	12	25	17	10	17	17	31	35	28	25	16	24	14	4	6	8	5	8	9	16	35	
19	43	43	22	17	7	7	9	19	25	12	17	20	14	12	13	10	18	6	4	6	2	2	2	3	14	43	
20	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	15	11	8	9	8	6	16	6	12	15	()	16	
21	23	8	9	4	5	9	13	16	28	11	18	16	17	13	10	8	11	13	4	2	10	7	10	6	11	28	
22	15	6	25	11	7	7	27	27	7	10	13	14	11	11	9	11	10	7	4	2	2	9	7	8	11	27	
23	6	14	27	14	26	40	12	7	13	22	25	24	23	21	17	14	11	7	4	9	13	8	5	7	16	40	
24	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	13	3	5	(CM)	5	5	3	3	5	7	()	13	
25	2	3	8	11	6	5	6	7	7	7	8	9	10	10	9	8	9	10	5	12	5	13	5	7	11	8	13
26	10	8	8	9	7	16	6	10	33	13	12	20	13	11	10	13	23	7	2	3	19	8	3	4	11	33	
27	10	15	30	27	16	11	8	4	13	16	10	13	14	16	12	12	7	6	3	9	10	11	5	2	12	30	
28	3	2	2	2	3	44	28	20	10	9	9	9	11	10	9	10	8	5	3	2	3	2	6	2	9	44	
29	9	2	3	4	7	7	5	6	9	10	11	10	11	12	10	10	9	6	4	4	2	3	5	8	7	12	
30	14	4	36	4	5	4	4	5	8	10	20	24	34	27	14	13	11	10	13	10	8	6	8	7	13	38	
AV	10	8	11	9	10	12	12	13	19	15	18	21	18	16	12	12	12	9	6	6	8	8	9	8	12	44	
PK	43	43	36	27	36	44	36	37	41	32	41	44	38	28	25	29	26	15	17	14	28	19	24	16			

TEMPERATURE
DEGREE C

CR-TRACT
TMAILER AR20
SEPT 1941
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	12	11	10	9	9	9	10	14	19	23	24	25	26	27	27	28	26	26	24	21	17	16	15	14	18	28
2	13	13	13	12	12	16	14	17	21	22	24	26	26	27	27	28	24	21	19	17	16	14	14	14	19	28
3	13	12	12	12	12	12	13	14	18	21	22	24	26	27	24	23	25	25	22	17	14	12	11	10	18	27
4	9	9	9	9	9	9	8	11	19	25	26	27	28	28	28	28	28	27	25	20	21	20	19	18	19	28
5	17	15	14	16	15	15	15	15	17	19	18	18	18	19	20	19	14	12	12	12	12	14	14	13	16	20
6	13	13	13	13	13	13	13	13	13	14	15	17	19	18	16	17	17	16	17	17	16	14	14	14	15	19
7	14	13	13	13	12	12	12	13	13	16	17	18	18	21	21	18	15	16	17	14	13	12	11	9	15	21
8	8	7	7	7	6	6	7	10	14	18	22	24	23	24	26	24	23	22	19	16	16	16	15	13	16	26
9	12	12	12	12	11	11	11	13	16	19	21	23	23	22	20	17	16	15	14	13	13	14	13	12	15	23
10	13	11	11	10	11	11	11	12	14	18	18	18	16	17	17	15	14	14	13	12	11	9	9	8	13	18
11	8	7	7	8	8	8	8	10	14	16	19	21	22	23	22	22	18	16	14	13	13	10	9	9	13	23
12	7	7	6	6	5	5	6	9	14	19	21	23	24	26	26	21	19	18	16	13	13	13	13	11	14	24
13	9	9	9	9	7	7	8	8	11	17	22	25	27	26	24	21	22	20	19	16	16	16	13	11	15	26
14	9	8	8	7	7	8	8	8	11	17	22	25	27	26	24	21	22	20	19	16	16	16	13	11	15	27
15	8	7	6	6	5	3	4	8	13	19	23	24	26	26	27	26	25	26	22	22	12	11	9	8	15	27
16	7	6	6	5	4	3	4	8	13	16	19	22	25	26	26	26	24	23	21	16	12	9	7	6	14	26
17	5	4	3	3	2	1	1	5	11	17	22	25	27	26	26	26	26	24	20	13	11	8	7	6	13	26
18	6	6	4	3	3	3	3	7	12	17	22	26	27	27	28	28	26	26	21	14	12	10	9	8	15	28
19	8	8	7	7	5	6	6	9	15	23	26	26	26	27	28	24	23	22	14	14	13	11	10	9	15	27
20	8	8	9	8	8	8	8	11	17	22	24	25	26	26	25	25	23	22	17	14	13	11	11	12	16	26
21	16	16	16	13	11	9	10	13	18	22	23	24	25	26	23	23	22	22	18	16	15	14	14	14	18	25
22	13	12	12	11	11	9	8	12	18	23	24	24	25	25	26	26	26	24	21	15	13	11	11	10	17	26
23	10	9	8	8	8	8	7	9	15	22	24	24	24	24	25	26	26	24	21	14	12	11	10	10	16	26
24	11	11	10	9	9	8	8	13	17	18	18	19	21	21	21	20	17	16	13	13	12	11	10	10	13	22
25	9	9	8	8	8	8	8	13	17	19	18	18	19	21	21	20	19	12	11	10	9	7	6	4	13	21
26	4	3	2	1	0	-1	-1	2	7	11	14	18	19	19	19	20	19	19	16	11	8	7	6	4	10	20
27	4	3	3	3	3	3	3	7	13	21	23	24	24	25	26	25	24	22	18	12	9	9	10	11	14	26
28	4	6	6	6	7	8	6	9	15	23	23	24	25	26	25	25	24	23	18	13	12	11	9	8	15	26
29	4	8	8	8	8	8	8	10	17	22	22	22	23	23	23	23	22	21	18	14	13	11	11	10	15	23
30	10	10	11	10	9	9	8	9	10	12	14	17	18	19	21	19	19	16	14	11	8	5	3	3	12	21
AV	10	9	9	8	8	8	8	10	15	19	21	22	23	23	23	23	22	20	18	15	13	12	11	10	15	
PK	17	16	16	16	15	16	15	17	21	25	26	27	28	28	28	28	28	27	25	21	21	20	19	18		28
MIN	4	3	2	1	0	-1	-1	2	7	11	14	17	14	14	16	15	14	12	11	10	8	5	3	3		

MONTHLY MINIMUM = -1

TEMPERATURE @ 10M
DEGREE C

CR-TRACT
TRAILER AA23
SEPT 1981
OCCIDENTAL OIL SHALE INC.

DAY	HOUR (LOCAL STANDARD TIME)																								AVE PEAK
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	12	11	11	10	9	9	11	14	19	20	21	22	23	24	26	25	24	24	22	19	19	19	18	18	26
2	13	18	18	18	18	17	17	17	21	20	21	24	25	25	25	25	23	18	17	15	14	13	12	18	18
3	12	11	11	10	11	11	12	13	17	19	21	24	23	24	22	19	22	23	20	17	17	15	14	13	25
4	14	13	13	12	12	13	14	17	21	23	24	24	25	26	26	26	26	25	23	20	19	18	18	17	24
5	17	16	17	17	16	15	15	15	16	17	17	17	17	17	19	18	12	11	11	10	9	9	9	9	19
6	9	9	9	9	9	9	9	9	9	10	12	14	17	15	13	16	13	14	13	12	13	12	12	12	19
7	11	11	11	10	10	9	9	10	11	13	14	14	19	19	18	14	12	14	14	12	12	11	11	10	19
8	9	9	8	8	8	7	8	11	15	19	21	22	23	24	24	23	22	19	18	16	16	16	14	13	19
9	13	13	13	12	12	12	12	13	16	18	21	22	22	22	17	14	14	14	14	13	13	13	11	11	24
10	11	10	10	11	11	11	11	11	12	16	15	16	14	15	14	12	11	12	11	10	9	10	8	9	22
11	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	17	15	14	13	12	11	11	11	16
12	10	9	9	9	7	8	9	11	16	19	19	22	22	21	21	18	17	16	14	13	13	13	14	12	17
13	11	11	11	11	9	9	9	12	17	19	22	23	24	23	14	18	19	18	16	14	13	12	11	12	22
14	11	11	9	9	9	11	11	11	12	13	18	23	24	24	21	17	18	18	17	15	14	14	13	12	24
15	12	11	10	9	8	8	8	11	15	19	22	24	25	26	25	23	23	23	20	18	17	15	14	13	24
16	12	12	11	10	9	8	9	11	13	16	19	22	22	23	24	23	23	21	18	17	14	13	13	11	26
17	9	11	8	8	6	7	7	9	13	16	18	21	23	23	23	23	22	21	19	17	16	14	13	11	23
18	12	10	9	8	9	9	9	12	15	19	22	25	26	27	26	26	26	24	21	18	17	16	14	13	27
19	13	13	12	11	11	13	13	14	18	21	23	23	22	24	19	21	21	21	18	17	17	16	16	14	24
20	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	22	23	22	18	14	13	13	12	12	12	23
21	12	12	12	11	11	9	11	13	18	19	22	23	23	23	22	21	21	20	19	18	16	15	16	14	23
22	13	13	13	12	11	12	12	15	19	21	21	22	23	23	23	23	23	22	19	17	16	14	13	13	23
23	14	14	12	13	13	12	12	14	18	21	22	23	24	24	24	24	24	22	19	17	16	14	14	14	24
24	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	12	15	16	17	16	16	16	15	14	13	13	17
25	13	13	13	13	13	13	13	14	15	16	17	17	18	18	18	18	17	11	10	9	10	9	8	8	18
26	8	8	6	3	3	1	2	4	8	11	13	17	18	18	18	18	19	18	14	13	11	10	10	9	19
27	9	9	8	8	8	8	7	11	17	20	21	21	22	22	23	23	22	21	18	16	14	14	14	14	19
28	13	14	14	14	14	12	11	13	18	20	21	22	23	23	23	23	23	21	18	17	17	16	14	15	23
29	13	16	16	16	15	15	15	16	18	19	19	20	21	21	21	21	20	19	18	17	15	14	14	15	21
30	13	14	13	12	11	9	8	8	9	9	12	15	17	19	19	19	18	16	13	11	9	8	8	6	19
AV	12	12	11	11	11	10	10	12	15	18	19	21	22	22	21	20	20	18	17	15	14	13	13	12	15
PK	18	18	18	18	18	17	17	17	21	23	24	25	26	27	26	26	26	25	23	20	19	19	18	18	27
MIN	8	8	6	3	3	1	2	4	8	9	12	14	14	12	13	12	11	11	10	9	9	8	8	6	
MONTHLY MINIMUM =																									1

TEMPERATURE @ 30M
DEGREE C

CB-TRACT
TRAILER AA23
SEPT 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	13	12	12	11	11	11	13	14	19	21	22	23	23	24	25	24	24	24	22	20	19	19	19	19	18	25
2	19	18	18	18	18	17	17	17	20	19	22	23	24	25	25	25	23	23	18	14	14	13	12	12	19	25
3	12	12	11	11	11	12	13	12	16	18	20	23	23	23	22	19	22	23	20	18	18	16	16	15	17	23
4	14	14	14	14	14	14	15	17	21	23	23	24	24	25	26	25	25	24	22	20	19	18	17	17	20	26
5	17	17	17	16	16	15	15	15	16	17	16	17	16	17	19	17	12	10	10	9	9	9	9	9	14	19
6	9	9	9	9	9	9	9	9	9	10	11	13	15	15	13	14	13	13	13	13	13	12	12	12	11	15
7	11	11	11	10	10	9	9	10	11	12	14	17	18	19	18	14	13	13	14	13	13	12	12	11	13	19
8	11	9	8	8	7	7	9	12	15	19	21	22	23	23	23	22	21	19	18	17	17	16	15	14	16	23
9	14	14	14	13	13	12	12	13	16	17	19	21	21	21	16	13	13	14	14	13	14	13	12	11	15	21
10	12	11	11	11	12	11	11	11	12	16	14	15	13	15	14	12	12	12	11	11	11	11	10	10	12	16
11	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	17	
12	11	10	11	9	8	9	9	11	16	19	19	21	21	21	19	17	17	16	16	14	14	13	14	13	15	21
13	12	12	11	12	11	11	10	12	17	19	21	23	24	22	15	17	19	18	16	14	14	13	12	12	15	24
14	12	12	11	10	10	11	11	11	13	14	18	22	23	24	21	18	18	18	17	16	16	15	14	12	15	24
15	12	12	11	11	9	9	9	11	15	18	21	23	24	25	25	23	23	22	21	18	17	16	15	14	17	25
16	13	12	11	11	10	9	9	11	12	16	19	21	22	23	23	23	22	21	19	18	16	13	12	12	16	23
17	11	10	9	8	7	7	8	9	13	17	19	21	22	22	23	23	22	21	20	18	16	14	13	13	15	23
18	13	12	10	10	10	10	11	13	16	14	23	24	25	26	26	26	26	23	21	19	18	17	16	15	18	26
19	14	14	13	13	13	13	13	14	19	21	23	24	22	23	20	21	19	21	19	18	18	17	17	16	18	24
20	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	23	
21	12	12	12	12	12	11	12	13	18	19	22	22	23	23	22	21	20	20	19	19	17	16	16	14	17	23
22	14	13	14	12	12	12	13	16	19	21	22	22	23	23	23	23	23	22	20	19	18	15	14	14	18	23
23	15	16	13	14	14	13	13	14	18	21	21	23	23	24	24	24	24	22	19	17	15	14	14	14	18	24
24	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	17	
25	14	14	13	13	13	13	13	14	15	16	16	18	18	18	18	18	17	16	16	16	16	15	13	13	14	18
26	8	8	7	4	3	2	3	4	8	11	14	17	18	18	18	18	18	17	15	14	12	11	12	11	11	18
27	11	11	9	9	9	10	9	12	16	19	21	22	22	23	23	23	22	21	18	17	16	16	16	16	16	23
28	15	16	16	16	16	13	12	14	19	20	21	22	23	23	23	23	23	21	19	18	18	17	15	16	18	23
29	14	17	16	16	15	15	15	16	18	19	19	20	21	21	21	21	20	19	18	18	16	16	16	16	18	21
30	14	14	13	13	11	9	8	8	8	9	12	14	16	18	18	18	17	16	14	12	11	9	8	7	12	18
AV	13	13	12	12	11	11	11	12	15	17	19	21	21	21	21	20	19	18	17	16	15	14	13	13	16	16
PK	19	18	18	18	18	17	17	17	21	23	23	24	25	26	26	26	26	24	22	20	19	19	19	19	19	26
MIN	8	8	7	4	3	2	3	4	8	9	11	13	13	13	13	12	12	10	10	9	9	9	8	7	7	

MONTHLY MINIMUM = 2

TEMPERATURE @ 60M
DEGREE C

CB-TRACT
TRAILER AA23
SEPT 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	13	13	13	12	11	12	13	16	19	21	22	23	23	24	24	24	24	23	22	20	20	19	19	19	19	24
2	19	19	18	18	18	17	17	18	21	19	22	23	24	25	25	25	23	18	17	14	14	13	12	12	19	25
3	13	12	12	11	12	12	13	13	17	18	21	24	23	23	21	19	22	23	20	18	18	17	17	16	17	24
4	16	16	16	16	15	15	16	17	21	23	24	26	25	26	26	26	25	24	23	21	18	18	17	17	20	26
5	17	17	17	16	16	15	15	15	16	17	16	17	16	17	19	17	11	10	10	9	9	9	9	9	14	19
6	9	9	9	9	9	9	9	9	9	10	11	13	15	14	13	14	13	14	13	13	13	12	12	12	11	15
7	11	11	11	10	9	9	9	10	11	12	14	17	19	19	17	14	12	14	14	13	13	12	12	12	13	19
8	11	11	9	8	8	8	9	12	15	18	19	21	22	23	23	22	22	19	17	17	17	16	15	14	16	23
9	14	14	14	13	13	12	13	13	15	18	19	20	21	21	16	13	14	15	14	14	14	12	12	11	15	21
10	12	11	11	11	12	12	12	11	13	16	14	16	13	15	14	12	12	12	12	11	11	11	11	11	12	16
11	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	16	15	14	13	13	11	12	12	()	16
12	12	11	11	11	9	9	11	13	16	18	19	21	22	21	19	17	17	16	16	16	14	14	14	13	15	22
13	12	12	12	12	12	12	11	13	17	20	22	23	24	22	16	18	19	18	16	14	14	13	13	12	16	24
14	12	12	12	11	10	11	12	12	13	16	18	22	24	23	21	17	18	18	17	16	16	16	15	14	13	24
15	13	12	12	11	9	9	9	12	15	19	22	24	24	25	25	23	23	22	21	18	17	16	15	14	17	25
16	13	13	12	11	10	9	10	11	13	16	19	21	22	23	23	23	22	21	18	16	15	13	12	12	16	23
17	9	9	9	9	8	7	8	10	13	16	19	21	23	23	23	23	22	21	19	16	16	14	13	13	15	23
18	12	12	11	10	10	11	11	14	17	20	23	24	25	26	26	26	25	23	21	19	18	18	17	16	18	26
19	15	14	14	14	13	13	13	16	19	21	23	23	22	23	20	21	19	21	19	18	18	18	17	17	18	23
20	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	22	22	22	17	14	14	14	13	13	()	22	
21	12	12	13	12	12	11	12	14	18	19	21	22	23	23	22	21	20	20	20	19	18	16	17	15	17	23
22	14	13	14	13	12	13	14	16	19	21	22	22	23	23	23	23	23	22	19	18	18	16	16	16	18	23
23	16	16	14	14	14	13	13	14	18	22	22	23	23	24	23	23	23	22	19	17	15	14	14	14	18	24
24	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	12	14	16	17	16	16	17	16	15	14	13	()	17
25	14	14	13	13	13	13	13	14	15	16	17	18	18	18	18	18	17	11	10	10	12	10	9	8	14	18
26	9	8	7	4	3	3	3	4	8	12	14	17	18	18	18	18	18	17	16	14	12	12	13	12	12	18
27	12	12	11	10	11	10	11	13	17	20	21	22	22	23	23	23	22	21	19	17	16	16	17	16	17	23
28	16	16	16	17	16	13	12	16	19	21	21	22	23	23	23	23	22	21	19	18	18	17	16	17	18	23
29	15	17	17	16	15	14	15	16	18	19	19	20	21	21	21	21	19	19	18	17	17	17	16	16	18	21
30	14	15	14	14	11	9	8	8	8	9	12	15	17	14	18	18	17	15	13	11	11	9	8	7	12	18
AV	13	13	13	12	12	11	12	13	15	18	19	21	21	21	21	20	19	18	17	16	15	14	14	13	16	26
PK	19	19	18	18	18	17	17	18	21	23	24	26	25	26	26	26	25	24	23	21	20	19	19	19	19	
MN	9	8	7	4	3	3	3	4	8	9	11	13	13	12	13	12	11	10	10	9	9	9	8	7	7	

MONTHLY MINIMUM = 3

TEMPERATURE @TOM

C-B TRACT
MRI AD42
September 1981

Refer to pages II-589 through II-624

Mechanical Recordering Instrument was removed and replaced by an R.A. solar powered data acquisition system installed July 25, 1981. Monitoring of data and maintenance of the instrumentation was contracted to WestAq Corp. upon purchase of the equipment.

TEMPERATURE @10M

C-B TRACT
MRI AD56
September 1981

DATA NOT AVAILABLE AT REPORT TIME

DELTA TEMPERATURE 60-104
DEGREE C*100

C8-TRACT
TRAILER AA23
SEPT 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK	
1	74	133	178	150	161	211	217	83	-22	-33	-100	-83	-83	-111	-139	-111	-94	-83	-22	39	100	100	122	100	33	217	
2	111	72	50	28	-6	6	50	22	-39	-17	-67	-111	-156	-144	-117	-122	-111	-128	-100	-83	-61	-78	-22	0	-43	111	
3	39	44	22	56	28	72	89	6	-39	-56	-50	-17	-83	-117	-78	39	-11	-39	-11	106	167	139	194	161	28	114	
4	117	211	222	261	239	189	183	22	0	-50	-39	-78	-111	-117	-94	-94	-122	-78	-22	17	-83	-144	-83	-67	12	211	
5	-6	17	-11	-56	-39	-33	-44	-56	-50	-39	-44	-44	-67	-28	-17	-78	-72	-61	-72	-61	-56	-56	-56	-61	-45	17	
6	-67	-50	-50	-61	-56	-56	-50	-56	-50	-44	-56	-44	-133	-61	-89	-39	-78	-33	-6	6	6	-33	17	0	-45	17	
7	-50	-50	-39	-50	-56	-56	-50	-44	-61	-44	17	-33	-6	-22	-83	-33	-28	-6	-17	6	67	111	78	89	-15	111	
8	78	100	-6	-22	17	67	78	89	22	-50	0	-11	-83	6	-50	-61	-72	-83	-83	17	56	-6	-22	61	6	100	
9	111	139	78	44	-6	17	0	0	-44	-17	-83	-117	-72	-61	-172	-72	-6	67	22	78	6	-33	-11	33	-4	119	
10	83	39	50	17	44	89	44	22	17	39	-39	-6	-100	22	-28	-28	22	-17	11	89	72	67	156	117	33	156	
11	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	-89	-44	6	56	94	22	39	56	()	94
12	94	56	67	122	156	89	167	122	33	-72	-22	-50	-67	-56	-94	-94	-78	17	133	172	122	72	-6	17	38	172	
13	44	106	156	139	183	156	156	67	-17	28	22	6	22	-28	189	61	-22	-22	-6	-17	106	94	50	-22	55	200	
14	100	122	200	61	44	51	83	94	117	156	67	-39	39	-67	-6	11	-17	0	22	56	100	94	50	-22	55	200	
15	83	78	133	89	11	-22	89	111	61	56	28	17	-44	-22	44	-17	-56	-44	-44	22	-128	-11	33	106	24	133	
16	122	117	78	39	94	72	83	22	-17	-33	-11	-28	0	-17	-22	-67	-106	-78	-50	-117	33	0	-83	44	3	122	
17	-28	-83	33	67	94	-72	72	78	-6	17	56	-22	-6	56	28	-39	-39	-56	-117	-128	-89	22	17	100	-2	100	
18	6	189	133	89	28	106	124	217	172	100	44	-22	-17	-17	22	28	-39	-67	-22	28	111	217	161	211	75	217	
19	167	139	228	239	194	33	61	161	61	17	-17	-28	-61	-17	61	11	-94	0	61	133	122	144	139	178	81	239	
20	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	-67	-89	-44	17	28	78	161	39	()	151	
21	-56	-6	39	106	33	128	122	144	28	-6	-94	-72	-33	-67	-44	-50	-172	-144	6	100	128	83	67	78	13	144	
22	33	17	72	83	67	78	139	106	28	28	39	28	-5	-6	-39	-194	-56	-56	6	156	144	117	183	206	49	206	
23	67	78	156	78	72	67	33	6	33	67	-50	-33	-89	-183	-44	-72	-67	-44	-6	-50	-6	0	6	-61	-2	116	
24	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	6	-11	39	61	44	11	72	44	()	172	
25	56	56	50	0	-17	-6	-39	-44	-22	-39	-22	39	-6	-33	-50	-50	-67	-56	-33	11	117	83	11	-6	-3	117	
26	-22	-22	17	39	11	111	22	33	17	61	56	28	-11	0	-11	-22	-50	-39	44	78	94	122	150	144	35	130	
27	156	167	150	178	144	189	283	222	17	22	44	33	0	28	17	-17	-44	-50	-6	28	22	106	128	78	79	213	
28	128	111	111	111	117	83	144	150	11	22	17	11	11	-33	-50	-39	-44	-50	-17	61	33	56	89	94	47	130	
29	161	78	72	61	-39	-61	-28	-22	-11	-6	-39	-56	-17	-33	-39	-39	-61	-33	-22	44	122	183	72	17	13	133	
30	28	28	56	83	17	-56	-67	-56	-56	-28	-11	-6	-6	-61	-6	-28	-83	-94	-111	-67	44	22	28	22	-17	83	
AV	60	70	83	72	57	54	73	56	7	7	-13	-27	-44	-44	-34	-44	-61	-47	-15	29	48	53	59	60	19	283	
PK	167	211	228	261	239	211	283	222	172	156	67	39	39	56	189	61	22	67	133	172	167	217	194	211	60	283	
MIN	-67	-83	-50	-61	-56	-72	-67	-56	-61	-72	-100	-117	-156	-183	-172	-194	-172	-144	-117	-128	-128	-144	-83	-67	19	283	

MONTHLY MINIMUM = -194

RELATIVE HUMIDITY @ 3M
PERCENT

CR-TRACT
TRAILER AA23
SEPT 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	40	42	45	47	47	49	51	51	45	33	29	28	27	26	26	25	25	25	25	26	27	28	28	28	34	51
2	28	28	28	28	28	28	28	30	31	33	28	30	28	26	24	24	23	23	23	29	37	40	40	50	30	50
3	57	58	56	56	57	57	57	56	53	52	37	33	29	24	24	23	23	29	27	25	28	32	32	34	40	58
4	37	39	41	43	44	44	44	43	42	36	29	25	22	22	22	22	22	22	22	24	32	35	38	38	33	44
5	37	37	38	38	40	41	44	46	48	46	44	45	44	44	44	39	43	62	62	56	63	63	63	63	48	63
6	63	63	63	62	62	62	62	62	62	62	62	59	55	46	44	54	48	54	56	56	56	58	59	60	58	63
7	60	61	59	58	58	57	58	58	57	57	54	53	44	40	36	36	53	55	57	53	58	59	60	61	54	61
8	61	61	60	61	61	62	62	62	58	48	37	31	27	25	24	24	24	25	26	31	40	40	36	36	43	62
9	40	41	42	42	44	44	45	50	50	45	38	34	29	26	25	29	51	58	57	54	56	54	48	50	44	58
10	56	54	57	57	59	58	59	61	59	62	53	41	47	46	44	44	43	55	60	60	61	62	62	62	55	62
11	62	62	62	62	61	62	62	62	62	57	38	33	31	27	27	25	32	39	43	46	49	53	54	55	49	62
12	54	55	55	55	56	58	58	57	49	38	27	27	24	24	24	28	32	32	40	45	48	52	51	41	43	58
13	43	48	51	52	53	55	56	57	48	38	30	26	24	23	23	51	36	30	31	33	37	42	43	45	41	57
14	45	46	45	48	49	50	51	50	51	50	53	34	24	23	23	35	37	34	33	32	35	38	38	39	40	53
15	44	44	44	45	48	54	57	57	54	42	33	28	23	22	22	22	22	22	22	22	23	28	30	32	35	57
16	34	35	36	37	42	46	50	50	51	46	39	31	27	24	24	23	23	23	23	23	24	26	29	32	33	51
17	36	37	38	40	41	42	46	46	39	34	29	26	24	22	21	21	21	21	21	21	22	24	26	26	30	46
18	27	29	29	32	33	34	36	36	36	33	28	24	22	22	22	22	22	22	28	28	29	29	29	30	28	36
19	31	31	31	33	34	35	34	35	32	26	24	23	23	23	30	31	32	28	40	44	44	47	48	49	30	35
20	30	32	32	32	32	32	33	34	32	28	26	25	24	24	24	24	24	25	40	44	44	47	48	49	33	49
21	52	53	54	60	61	60	60	59	48	32	28	25	24	22	22	23	24	25	23	24	24	27	27	28	37	61
22	30	32	35	36	38	48	43	40	32	25	24	23	23	22	21	21	21	21	21	22	26	29	30	29	29	48
23	31	30	29	32	33	35	36	37	36	31	26	24	23	22	22	22	22	22	41	42	30	34	35	38	29	38
24	38	38	39	42	44	46	48	50	48	41	38	32	30	50	58	58	48	41	44	42	36	39	40	43	43	58
25	45	44	43	43	43	43	42	40	40	36	32	29	25	24	24	24	25	36	49	54	56	54	53	55	40	56
26	53	55	55	57	62	64	67	67	56	45	34	27	24	22	22	22	22	22	23	24	25	27	28	29	39	67
27	30	31	33	34	35	35	35	35	30	24	24	22	22	22	22	22	22	22	22	23	24	25	25	25	27	35
28	26	26	26	26	26	26	28	30	30	24	23	23	22	22	22	22	22	22	22	23	25	26	26	27	25	30
29	28	29	29	29	29	30	31	32	32	28	27	26	26	25	25	25	25	26	27	29	32	35	35	33	29	35
30	30	32	32	32	32	36	40	45	48	47	47	46	39	35	31	26	25	25	26	29	30	34	39	41	35	48

AV	42	43	43	44	45	46	47	48	45	40	35	31	29	28	27	29	30	32	33	34	37	39	39	40	38	
PK	63	63	63	62	62	64	67	67	62	62	62	59	55	50	58	58	53	62	62	63	63	63	63	63	67	
MM	26	26	26	26	26	26	28	30	30	24	22	22	22	22	21	21	21	21	21	21	22	24	25	25		

MONTHLY MINIMUM = 21

SOLAR RADIATION
LANGLEY

CB-TRACT
TRAILER AH23
SEPT 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TL	PEAK
1	0	0	0	0	0	0	7	22	38	53	64	71	73	68	58	31	26	13	1	0	0	0	0	0	524	73
2	0	0	0	0	0	0	5	10	25	20	28	58	64	71	55	48	16	4	0	0	0	0	0	0	404	71
3	0	0	0	0	0	0	3	14	40	26	44	67	40	41	11	10	26	12	1	0	0	0	0	0	334	67
4	0	0	0	0	0	0	9	18	39	50	63	70	58	69	52	45	29	12	1	0	0	0	0	0	514	70
5	0	0	0	0	0	0	1	4	17	16	13	14	14	34	27	8	1	1	0	0	0	0	0	0	151	34
6	0	0	0	0	0	0	1	5	10	14	19	30	40	14	16	17	7	5	0	0	0	0	0	0	178	40
7	0	0	0	0	0	0	2	5	13	19	43	61	71	47	7	1	3	8	1	0	0	0	0	0	279	71
8	0	0	0	0	0	0	5	22	35	49	58	70	74	64	42	23	29	6	0	0	0	0	0	0	477	74
9	0	0	0	0	0	0	3	11	27	34	46	58	43	24	9	9	8	4	0	0	0	0	0	0	277	58
10	0	0	0	0	0	0	1	7	28	41	25	22	11	31	5	3	8	4	0	0	0	0	0	0	187	41
11	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	2	3	0	0	0	0	0	5	3
12	0	0	0	0	0	0	5	19	38	43	49	68	51	27	23	14	11	1	0	0	0	0	0	0	350	68
13	0	0	0	0	0	0	5	19	35	49	59	65	64	39	11	30	16	4	0	0	0	0	0	0	395	65
14	0	0	0	0	0	0	2	3	7	20	46	64	68	49	16	11	13	3	0	0	0	0	0	0	302	68
15	0	0	0	0	0	0	5	19	35	49	59	65	56	67	51	16	19	8	0	0	0	0	0	0	448	67
16	0	0	0	0	0	0	4	13	21	47	60	64	65	60	51	38	23	7	0	0	0	0	0	0	454	65
17	0	0	0	0	0	0	5	20	36	50	61	67	66	61	52	38	23	7	0	0	0	0	0	0	486	67
18	0	0	0	0	0	0	5	19	35	50	60	65	66	62	52	38	22	6	0	0	0	0	0	0	481	66
19	0	0	0	0	0	0	5	19	35	49	58	50	14	37	22	17	23	5	0	0	0	0	0	0	333	58
20	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	15	19	13	0	0	0	0	0	0	0	47	19
21	0	0	0	0	0	0	4	17	33	47	58	64	61	43	25	20	7	3	0	0	0	0	0	0	382	64
22	0	0	0	0	0	0	4	17	35	48	56	57	62	55	49	36	20	5	0	0	0	0	0	0	445	62
23	0	0	0	0	0	0	3	14	33	47	39	45	52	55	46	36	20	5	0	0	0	0	0	0	395	55
24	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	7	40	14	13	1	0	0	0	0	0	0	75	40
25	0	0	0	0	0	0	4	14	25	22	43	70	61	43	29	20	7	0	0	0	0	0	0	0	338	70
26	0	0	0	0	0	0	4	18	34	47	58	63	63	58	49	35	20	4	0	0	0	0	0	0	453	63
27	0	0	0	0	0	0	4	18	33	46	56	62	62	57	47	33	14	3	0	0	0	0	0	0	435	62
28	0	0	0	0	0	0	3	17	33	47	58	62	63	58	47	35	19	2	0	0	0	0	0	0	444	63
29	0	0	0	0	0	0	1	13	26	36	20	26	46	36	38	22	7	1	0	0	0	0	0	0	271	46
30	0	0	0	0	0	0	2	11	13	17	35	49	48	55	46	34	16	2	0	0	0	0	0	0	329	55
TL	0	0	0	0	0	0	103	389	777	1039	1279	1525	1456	1332	991	700	460	139	3	0	0	0	0	0	0	0
PK	0	0	0	0	0	0	9	22	40	53	64	71	74	71	58	48	29	13	1	0	0	0	0	0	0	74

BAROMETRIC PRESSURE
MILLIBARS

CH-TRACT
TRAILER AR23
SEPT 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	790	791	790	790	790	790	790	787	788	790	790	789	786	788	788	785	784	784	784	783	784	784	784	784	787	791
2	783	787	783	783	783	783	784	784	784	785	790	790	790	789	784	784	784	784	785	786	787	787	787	787	787	790
3	787	787	786	786	787	787	787	787	787	788	788	788	787	787	787	787	786	786	786	786	786	786	786	786	787	788
4	786	786	786	786	786	786	786	786	787	787	787	787	786	786	786	785	785	785	785	785	785	785	785	785	786	787
5	784	785	785	785	785	785	785	785	785	785	785	785	784	784	783	783	784	784	785	785	786	786	786	786	785	786
6	786	786	786	786	786	787	787	787	788	788	788	788	788	788	788	788	789	789	789	789	790	790	790	790	788	790
7	790	790	790	791	791	791	791	792	792	792	792	792	793	793	793	792	792	792	792	792	792	792	792	792	792	793
8	792	792	792	792	792	792	792	792	792	793	793	793	793	793	791	791	790	790	790	790	791	790	790	790	791	793
9	790	790	790	790	790	790	790	790	790	790	790	789	788	788	787	787	787	786	786	786	787	787	787	787	788	790
10	785	786	786	786	786	786	786	787	787	787	787	787	787	786	786	786	787	787	787	787	788	788	788	788	787	788
11	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	791	790	790	790	791	791	791	791	()	791
12	791	791	791	791	791	791	791	791	791	791	791	791	791	790	790	789	789	789	789	789	790	790	790	790	790	791
13	789	789	789	789	789	789	789	789	789	789	790	790	789	789	789	788	788	788	788	788	789	789	789	789	789	790
14	789	788	788	788	788	788	788	789	789	789	789	789	789	788	791	792	792	792	792	792	793	793	793	793	790	793
15	793	793	793	793	793	793	794	794	794	795	795	794	791	792	791	791	791	791	791	791	791	791	791	791	791	792
16	791	791	791	792	792	792	793	793	793	794	794	794	794	793	793	793	792	792	792	792	792	793	793	793	792	795
17	793	793	793	793	793	794	794	798	798	798	798	798	797	797	797	796	796	796	795	795	796	796	796	796	796	798
18	796	796	796	796	796	796	796	797	796	794	795	794	794	794	793	792	791	790	790	790	792	789	789	789	793	797
19	789	789	789	789	789	789	789	789	789	789	792	791	787	787	786	785	785	785	785	785	785	785	785	785	787	792
20	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	784	784	784	784	784	784	784	784	784	784	()	785
21	785	785	785	785	785	785	785	785	785	785	786	786	785	785	785	784	784	784	785	785	785	784	784	784	785	786
22	784	785	785	785	785	785	785	785	785	785	785	785	785	785	785	785	784	784	784	784	784	784	784	784	785	785
23	784	784	784	784	785	785	785	786	786	786	786	786	786	786	785	785	785	784	784	784	784	784	784	784	785	785
24	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	787	786	786	786	786	785	785	785	785	785	()	787
25	785	785	784	784	784	784	784	784	783	783	783	783	782	782	782	782	782	786	786	786	788	788	788	789	785	789
26	789	789	790	790	790	791	791	791	791	791	792	792	792	794	793	794	792	791	791	791	791	792	792	792	791	794
27	792	793	793	793	793	793	793	793	793	793	794	794	794	793	792	792	791	791	791	791	791	791	791	791	791	794
28	791	791	791	791	791	791	791	791	788	787	787	787	786	786	786	785	785	785	785	785	786	786	786	786	788	791
29	786	786	785	785	785	786	785	785	785	784	785	784	784	783	783	783	783	783	783	783	783	783	784	784	786	786
30	784	784	784	785	785	787	787	788	788	789	789	788	788	787	787	787	787	787	788	788	788	788	789	789	787	789
AV	788	788	788	788	789	789	789	789	789	789	790	789	789	789	788	788	788	788	788	788	788	788	788	788	788	798
PK	796	796	796	796	796	796	796	798	798	798	798	798	797	797	797	796	796	796	795	795	796	796	796	796	796	798
MN	783	783	783	783	783	783	784	784	783	783	783	783	782	782	782	782	782	783	783	783	783	783	784	784	784	798

MONTHLY MINIMUM = 782

PRECIPITATION
Cuslon

CB-TRACT
TRAILFR AR20
SEPT 19H1
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TL PEAK
1																									
2																									
3																									
4																									
5																									
6																									
7																									
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9																									
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25																									
26																									
27																									
28																									
29																									
30																									
TL																									
PK																									

PRECIPITATION
CM*100

CB-TRACT
TRAILER AR23
SEPT 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TL PEAK
1																									()
2																							10		10
3																									()
4																									()
5				51			38																		89
6				8																					51
7																									8
8																									()
9																									()
10																									38
11																									()
12																									()
13													25												25
14																									()
15																									()
16																									()
17																									()
18																									()
19																									13
20				5																					8
21																									()
22																									13
23																									()
24																									()
25													76												76
26																									()
27																									()
28																									()
29																									()
30																									()
TL	13	8	38	63	()	()	38	()	()	()	()	76	51	()	()	()	()	()	()	()	()	()	10	()	297
PK	13	8	38	51			38					76	25										10		76

EVAPORATION

C-B TRACT
TRAILER AB23
September 1981

NOT OPERATIONAL

INVERSION HEIGHT
METERS

CB-TRACT
TRAILER AC20
SFPT 1941
OCCIDENTAL OIL SHALE INC.

DAY	HOUR (LOCAL STANDARD TIME)																								AVE PEAK	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	340	340	330	325	325	305	220	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	220	320	400	440	460	460	345	460
2	245	260	235	215	260	275	240	100	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	50	175	135	165	300	305	305	220	305
3	275	185	170	170	230	295	205	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	205	175	295	295	315	320	241	320
4	270	250	230	260	325	325	180	40	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	325
5	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	()
6	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	()
7	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	()
8	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	()
9	320	315	255	240	230	230	225	205	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	110	210	230	160	160	255	()	255
10	255	315	335	275	260	250	215	70	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	410	320	225	225	225	305	266	410
11	270	325	360	310	335	290	255	140	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	50	200	295	345	330	350	253	350
12	255	285	290	290	255	275	265	175	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	195	220	185	280	310	310	273	360
13	360	360	360	360	330	310	230	40	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	275	320	335	320	235	185	180	263	335
14	300	325	340	320	300	300	300	290	255	100	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	130	175	240	235	220	270	272	360
15	250	270	270	275	325	380	310	75	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	195	225	240	245	325	320	265	380
16	295	280	270	260	265	260	210	90	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	160	215	235	235	260	265	236	295
17	275	305	330	340	320	290	265	150	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	110	200	215	240	255	270	255	340
18	245	330	340	345	310	300	295	140	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	155	205	285	390	340	360	297	390
19	275	275	275	275	265	270	255	190	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	225	295	315	320	330	345	390	288	390
20	455	480	480	470	470	470	410	305	130	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	145	210	250	340	340	420	360	480
21	620	525	400	510	635	645	570	410	275	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	70	225	260	270	270	270	240	390	645
22	220	215	240	265	265	350	460	410	110	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	190	305	410	525	515	460	329	525
23	515	535	525	505	470	410	335	225	50	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	160	220	95	115	140	250	307	535
24	320	310	220	200	300	310	305	305	240	(NV)	(NV)	(NV)	(NV)	100	305	250	140	170	220	240	260	320	390	440	267	440
25	340	325	340	360	340	315	290	195	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	190	250	340	450	470	470	327	470
26	375	310	240	240	230	295	320	225	40	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	40	145	405	515	440	410	410	299	515
27	365	345	420	430	395	320	245	225	120	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	110	190	235	250	240	185	274	430
28	200	330	345	330	365	420	460	360	140	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	150	230	240	240	250	305	301	460
29	315	310	330	365	450	365	325	275	70	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	45	165	300	370	405	420	301	450
30	190	310	180	230	210	235	230	210	100	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	60	170	225	285	360	380	225	380
AV	317	324	315	316	326	327	297	205	()	()	()	()	()	()	()	()	()	()	180	221	264	293	315	331	284	
PK	620	535	525	510	635	645	570	410	275	100	()	()	()	100	305	250	140	275	410	405	515	525	515	470	645	

STABILITY CLASS * 50M
0=STH 1=UNST

CR-TRACT
TRAILER AC20
SPT 1481
OCCIDENTAL OIL SHALE INC.

DAY	HOUR (LOCAL STANDARD TIME)																				PREV
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0
2	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0
3	0	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0
4	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	(RF)	(RF)	0	0	0
5	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)
6	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)
7	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)
8	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)
9	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0
10	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0
11	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0
12	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0
13	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0
14	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0
15	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0
16	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0
17	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0
18	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0
19	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0
20	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0
21	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0
22	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0
23	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0
24	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0
25	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0
26	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0
27	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0
28	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0
29	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0
30	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0
PV	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0

CR-TRACT
TRAILER AC20
SFPT 1931
OCCIDENTAL OIL SHALE INC.

STABILITY CLASS W 200M
0=STH 1=UNST

DAY	HOUR (LOCAL STANDARD TIME)																								PREV
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1
3	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
4	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	1
5	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()
6	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()
7	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()
8	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()
9	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	0	0
10	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1
12	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1
13	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1
14	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
15	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
16	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1
17	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1
18	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1
19	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1
20	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
21	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1
22	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
30	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
PV	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0

STABILITY CLASS USING DT/DZ
DT 60-104
WS 104

CB-TRACT
TRAILER AA23
SEPT 1981
OCCIDENTAL OIL SHALE, INC.

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE
1	F	F	F	F	F	F	F	F	E	D	B	C	C	B	B	B	R	C	E	E	E	E	E	E	D
2	F	F	F	F	F	F	F	F	D	E	D	E	R	C	C	C	A	H	E	C	D	C	F	F	E
3	F	F	F	F	F	F	F	F	D	D	D	E	C	H	H	E	E	D	E	F	F	D	D	D	D
4	F	F	F	F	F	F	F	F	D	D	D	C	R	R	H	H	E	C	E	E	D	D	D	D	D
5	F	F	F	F	F	F	F	F	D	D	D	D	R	D	E	D	D	D	E	E	D	D	D	D	D
6	F	F	F	F	F	F	F	F	D	D	D	D	A	D	C	D	C	D	E	E	E	E	E	E	E
7	F	F	F	F	F	F	F	F	D	D	D	D	E	E	D	D	D	E	E	E	E	E	E	E	E
8	F	F	F	F	F	F	F	F	D	D	D	D	E	E	D	D	D	E	E	E	E	E	E	E	E
9	F	F	F	F	F	F	F	F	D	D	D	D	E	E	D	D	D	E	E	E	E	E	E	E	E
10	F	F	F	F	F	F	F	F	D	D	D	D	E	E	D	D	D	E	E	E	E	E	E	E	E
11	F	F	F	F	F	F	F	F	D	D	D	D	E	E	D	D	D	E	E	E	E	E	E	E	E
12	F	F	F	F	F	F	F	F	D	D	D	D	E	E	D	D	D	E	E	E	E	E	E	E	E
13	F	F	F	F	F	F	F	F	D	D	D	D	E	E	D	D	D	E	E	E	E	E	E	E	E
14	F	F	F	F	F	F	F	F	D	D	D	D	E	E	D	D	D	E	E	E	E	E	E	E	E
15	F	F	F	F	F	F	F	F	D	D	D	D	E	E	D	D	D	E	E	E	E	E	E	E	E
16	F	F	F	F	F	F	F	F	D	D	D	D	E	E	D	D	D	E	E	E	E	E	E	E	E
17	F	F	F	F	F	F	F	F	D	D	D	D	E	E	D	D	D	E	E	E	E	E	E	E	E
18	F	F	F	F	F	F	F	F	D	D	D	D	E	E	D	D	D	E	E	E	E	E	E	E	E
19	F	F	F	F	F	F	F	F	D	D	D	D	E	E	D	D	D	E	E	E	E	E	E	E	E
20	F	F	F	F	F	F	F	F	D	D	D	D	E	E	D	D	D	E	E	E	E	E	E	E	E
21	F	F	F	F	F	F	F	F	D	D	D	D	E	E	D	D	D	E	E	E	E	E	E	E	E
22	F	F	F	F	F	F	F	F	D	D	D	D	E	E	D	D	D	E	E	E	E	E	E	E	E
23	F	F	F	F	F	F	F	F	D	D	D	D	E	E	D	D	D	E	E	E	E	E	E	E	E
24	F	F	F	F	F	F	F	F	D	D	D	D	E	E	D	D	D	E	E	E	E	E	E	E	E
25	F	F	F	F	F	F	F	F	D	D	D	D	E	E	D	D	D	E	E	E	E	E	E	E	E
26	F	F	F	F	F	F	F	F	D	D	D	D	E	E	D	D	D	E	E	E	E	E	E	E	E
27	F	F	F	F	F	F	F	F	D	D	D	D	E	E	D	D	D	E	E	E	E	E	E	E	E
28	F	F	F	F	F	F	F	F	D	D	D	D	E	E	D	D	D	E	E	E	E	E	E	E	E
29	F	F	F	F	F	F	F	F	D	D	D	D	E	E	D	D	D	E	E	E	E	E	E	E	E
30	F	F	F	F	F	F	F	F	D	D	D	D	E	E	D	D	D	E	E	E	E	E	E	E	E
AVE	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E

TOTAL OCCURRENCES: A= 4 H= 30 C= 24 D=177 E=297 F=132 HOURS MISSING= 52

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

NITRIC OXIDE (NO)										PERIOD(9/01/81 TO 9/30/81)										C-B SHALE OIL				ROJECT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
TRAILER										AB20										WIND 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0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

NITRIC OXIDE (NO)

C-B SHALE OIL PROJECT

PERIOD(9/01/81 TO 9/30/81)

TRAILER AR23

WIND DIRECTION

CONCENTRATION MAX UG/M**3	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CAIM	TOTAL
GT 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20. - 30. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10. - 20. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LT 10. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN CONC.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

OXIDES OF NITROGEN (NOX)

C-B SHALE OIL PROJECT

PERIOD(9/01/81 TO 9/30/81)

TRAILER AB20

WIND DIRECTION

CONCENTRATION MAX UG/M**3	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
	3	1	5	5	7	7	5	5	1	1	1	5	7	7	5	1	7	
GT 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
20. - 30. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
10. - 20. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
LT 10. :	8	7	18	8	93	175	118	15	19	25	18	43	34	48	23	16	52 :	720
TOTAL :	8	7	18	8	93	175	118	15	19	25	18	43	34	48	23	16	52	720
MEAN CONC.	0	0	1	1	0	0	0	1	0	0	0	0	1	1	1	0	2	0

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

OXIDES OF NITROGEN (NOX)

C-B SHALE OIL PROJECT

PERIOD(9/01/81 TO 9/30/81)

TRAILER AB23

CONCENTRATION MAX UG/M ³	WIND DIRECTION																TOTAL			
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL		
GT 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20. - 30. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10. - 20. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LT 10. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN CONC.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

0 = NO OBSERVATIONS

C-B SHALE OIL PROJECT

NITROGEN DIOXIDE (NO2)

PERIOD(9/01/81 TO 9/30/81)

TRAILER - AB20

WIND DIRECTION

[illegible]

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

NITROGEN DIOXIDE (NO2)

C-B SHALE OIL PROJECT

PERIOD(9/01/81 TO 9/30/81)

TRAILER AB23

CONCENTRATION MAX UG/M**3	WIND DIRECTION																TOTAL	
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW		CALM
GT 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20. - 30. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10. - 20. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LT 10. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN CONC.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

OZONE (03)

C-B SHALE OIL PROJECT

TRAILER AB20 PERIOD(9/01/81 TO 9/30/81)

CONCENTRATION MAX UG/M**3	WIND DIRECTION																TOTAL			
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL		
90	84	115	105	113	113	119	103	103	103	129	139	139	133	131	96	94	111			
GT 260.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
240. - 260.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
220. - 240.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200. - 220.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180. - 200.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160. - 180.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140. - 160.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120. - 140.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100. - 120.	0	0	2	2	2	11	13	1	5	6	3	11	2	3	0	0	0	0	0	7
80. - 100.	3	4	3	1	6	22	14	8	5	9	6	24	19	24	15	12	4	1	1	62
60. - 80.	5	3	10	1	15	32	23	4	8	9	6	7	9	15	5	4	7	7	7	163
40. - 60.	0	0	2	4	57	77	49	2	0	0	0	0	2	5	3	0	18	0	0	219
20. - 40.	0	0	1	0	13	32	19	0	0	0	0	0	0	0	0	0	21	0	0	86
LT 20.	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	2
TOTAL	8	7	18	8	93	175	118	15	18	25	17	43	34	48	23	16	52	718	48	68
MEAN CONC.	80	78	73	71	55	58	63	79	86	87	93	92	85	80	80	85	48	68		

0 = NO OBSERVATIONS

C-B SHALE OIL PROJECT

AB23

2000

CONCLUSIONS

UN

6

240.

220.

200.

180.

160.

140.

120.

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80.

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11-550

10

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

CARBON MONOXIDE (CO)

C-B SHALE OIL PROJECT

TRAILER AB20 PERIOD(9/01/81 TO 9/30/81)

CONCENTRATION MAX UG/M**3	WIND DIRECTION																TOTAL	
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
919	919	919	919	689	1034	1034	1034	1034	919	804	574	919	919	919	919	689	919	
GT 4000. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
3750. -4000. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
3500. -3750. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
3250. -3500. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
3000. -3250. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
2750. -3000. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
2500. -2750. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
2250. -2500. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
2000. -2250. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
1750. -2000. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
1500. -1750. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
1250. -1500. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
1000. -1250. :	0	0	0	0	1	3	1	1	0	0	0	0	0	0	0	0	0 :	6
LT 1000. :	6	7	16	7	89	159	107	14	17	24	15	40	32	46	23	16	52 :	670
TOTAL :	5	7	16	7	90	162	108	15	17	24	15	40	32	46	23	16	52	676
MEAN CONC.	651	657	575	607	454	478	547	590	588	517	329	503	452	495	470	445	583	505

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

C-B SHALE OIL PROJECT

CARBON MONOXIDE (CO)

PERIOD(9/01/81 TO 9/30/81)

TRAILER AB23

WIND DIRECTION

SSW S SW

WSW W WNW NW NNW CALM TOTAL

CONCENTRATION

MAX

UG/M**3

GT 4000.

3750.

3500.

3250.

3000.

2750.

2500.

2250.

2000.

1750.

1500.

1250.

1000.

LT 1000.

TOTAL

MEAN

CONC.

0 = NO OBSERVATIONS

111000

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

SULFUR DIOXIDE (SO2)

C-B SHALE OIL PROJECT

PERIOD(9/01/81 TO 9/30/81)

TRAILER AB20

CONCENTRATION MAX UG/M**3	WIND DIRECTION															
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
	7	7	7	7	7	7	7	7	7	7	10	10	10	7	10	7
	7	7	7	7	7	7	7	7	7	7	10	10	10	7	10	7

GT 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20. - 30. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10. - 20. :	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	0
LT 10. :	8	7	18	8	93	175	118	15	19	25	17	42	33	48	22	16
TOTAL :	8	7	18	8	93	175	118	15	19	25	18	43	34	48	23	16
MEAN CONC.	6	6	7	6	5	5	6	6	6	5	7	6	7	6	7	6

0 = NO OBSERVATIONS

111503

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

C-B SHALE OIL PROJECT

SULFUR DIOXIDE (SO2)

PERIOD(9/01/81 TO 9/30/81)

TRAILER AB23

CONCENTRATION MAX UG/M**3	WIND DIRECTION																NW CALM TOTAL			
	N	NNE	NE	ENE	E	ESE	SE	SSE	SSE	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL		
	7	7	7	7	5	5	5	5	5	10	5	7	5	7	20	18	2			

GT 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20. - 30. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
10. - 20. :	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3	5	0	0	0	9
LT 10. :	13	13	12	10	19	29	33	33	33	51	67	23	11	19	26	14	8	416		
TOTAL :	13	13	12	10	19	29	33	33	33	52	67	23	11	19	30	19	8	426		
MEAN CONC.	4	3	2	3	1	1	1	1	1	2	1	2	2	1	4	6	1	2		

0 = NO OBSERVATIONS

11-570

(01/06/82-RPI)

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

HYDROGEN SULFIDE (H2S)

C-B SHALE OIL PROJECT

PERIOD(9/01/81 TO 9/30/81)

TRAILER AB23

CONCENTRATION MAX UG/M*3	WIND DIRECTION																NW				NNW				CALM				TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL											
GT 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
20. - 30. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
10. - 20. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
LT 10. :	13	13	12	10	16	26	32	32	34	47	67	22	11	19	30	19	8	411											
TOTAL :	13	13	12	10	16	26	32	32	34	47	67	22	11	19	30	19	8	411											
MEAN CONC.	1	1	1	1	1	1	2	2	2	1	1	1	2	2	1	1	1	1	1										

0 = NO OBSERVATIONS

11-571

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

10 METER LEVEL

C-B SHALE OIL PROJECT

STATION AB20 PERIOD(9/01/81 TO 9/30/81)

WIND DIRECTION

WIND SPEED MAX METERS/SEC	WIND DIRECTION																	TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	
2	1	3	3	6	5	4	4	4	5	5	4	6	4	2	0	0	0	

GT 11. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8. - 11. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5. - 8. :	0	0	0	0	2	1	0	0	0	1	1	2	0	0	0	0	0	7
3. - 5. :	0	0	0	1	7	33	2	9	12	9	12	11	6	5	0	0	0	108
1. - 3. :	6	5	7	3	53	120	63	9	7	8	8	22	16	31	15	15	0	388
LT 1. :	2	2	11	4	39	46	21	4	3	5	0	8	7	9	3	1	0	165
TOTAL :	8	7	18	8	93	175	118	15	19	25	18	43	34	48	23	16	0	668
PERCENT	1.	1.	3.	1.	14.	26.	18.	2.	3.	4.	3.	6.	5.	7.	3.	2.	0.	100.

0 = NO OBSERVATIONS

II-572

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

10 METER LEVEL

C-B SHALE OIL PROJECT

STATION AA23 PERIOD(9/01/81 TO 9/30/81)

WIND SPEED MAX METERS/SEC	WIND DIRECTION																NNW	VAR	TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW			
GT 11. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8. - 11. :	0	0	0	0	0	0	0	0	0	3	9	0	0	0	0	0	0	0	12
5. - 8. :	0	0	0	0	0	0	1	0	3	10	18	1	0	2	2	0	0	0	37
3. - 5. :	6	2	4	1	0	2	8	12	27	33	50	11	2	5	5	5	0	0	173
1. - 3. :	5	7	7	8	16	23	23	31	21	27	33	12	9	17	21	14	0	0	274
LT 1. :	6	9	8	7	15	13	15	7	14	20	20	12	5	6	9	6	0	0	172
TOTAL :	17	18	19	16	31	38	47	50	65	93	130	36	16	30	37	25	0	0	668
PERCENT	3.	3.	3.	2.	5.	6.	7.	7.	10.	14.	19.	5.	2.	4.	6.	4.	0.	0.	100.

0 = NO OBSERVATIONS

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

30 METER LEVEL

C-B SHALE OIL PROJECT

STATION AA23 PERIOD(9/01/81 TO 9/30/81)

WIND DIRECTION

WIND SPEED MAX METERS/SEC	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	TOTAL
GT 11. :	0	0	0	0	0	0	0	0	0	3	7	0	0	0	0	0	0 :	10
8. - 11. :	0	0	0	0	0	1	0	0	8	12	12	0	0	1	1	0	0 :	35
5. - 8. :	0	1	1	0	1	2	5	9	19	36	34	6	0	3	0	1	0 :	118
3. - 5. :	13	2	4	3	5	13	21	16	11	21	17	4	4	7	10	6	0 :	157
1. - 3. :	7	8	5	10	16	18	28	17	22	18	12	11	15	19	20	12	0 :	238
LT 1. :	8	7	5	3	11	7	7	8	9	7	14	5	5	4	5	5	0 :	110
TOTAL :	28	18	15	16	33	41	61	50	69	97	96	26	24	34	36	24	0	668
PERCENT	4.	3.	2.	2.	5.	6.	9.	7.	10.	15.	14.	4.	4.	5.	5.	4.	0.	100.

0 = NO OBSERVATIONS

II-574

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

60 METER LEVEL

C-B SHALE OIL PROJECT

STATION AA23 PERIOD(9/01/81 TO 9/30/81)

WIND DIRECTION

WIND SPEED MAX METERS/SEC	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	TOTAL
GT 11. :	0	0	0	0	0	0	0	0	0	6	10	1	0	0	0	0	0	17
8. - 11. :	0	0	0	0	0	0	1	0	5	16	28	0	0	1	2	0	0	53
5. - 8. :	3	0	4	1	0	3	7	12	18	20	53	13	2	2	4	1	0	143
3. - 5. :	6	8	5	2	4	2	22	16	12	15	22	12	4	11	12	11	0	164
1. - 3. :	8	10	3	10	9	14	22	18	25	18	9	9	12	15	20	18	0	220
LT 1. :	5	2	7	5	2	5	8	2	4	1	10	5	8	4	5	2	0	75
TOTAL :	22	20	19	18	15	24	60	48	64	76	132	40	26	33	43	32	0	672
PERCENT	3.	3.	3.	3.	2.	4.	9.	7.	10.	11.	20.	6.	4.	5.	6.	5.	0.	100.

0 = NO OBSERVATIONS

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

10 METER LEVEL

C-B SHALE OIL PROJECT

STATION AD42 PERIOD (9/01/81 - 9/30/81)

Refer to pages II-589 through II-624

Mechanical Recordering Instrument was removed and replaced by an K.A. solar powered data acquisition system installed July 25, 1981. Monitoring of data and maintenance of the instrumentation was contracted to WestAq Corp. upon purchase of the equipment.

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

10 METER LEVEL

C-B SHALE OIL PROJECT

STATION AD56 PERIOD (9/01/81 - 9/30/81)

DATA NOT AVAILABLE AT REPORT TIME

FIVE MAXIMUM SLIDING AVERAGE
UG/M**3

C-R TRACT
SITE AB20
SEPT 1981
OCCIDENTAL OIL SHALE, INC.

COMPONENT	AVG. TIME	RANK	DAY	HOUR (BEG)	VALUE
S02	3 HR	1	7	14	9.6
		2	2	10	8.7
		3	16	10	8.7
		4	1	1	8.9
		5	1	4	7.9
S02	24 HR	1	6	17	8.1
		2	1	13	8.0
		3	2	13	7.9
		4	4	16	7.9
		5	5	16	7.9
C0	1 HR	1	12	18	1000.0
		2	12	19	1000.0
		3	14	16	1000.0
		4	15	21	1000.0
		5	15	6	1000.0
C0	8 HR	1	12	14	900.0
		2	14	15	900.0
		3	16	5	900.0
		4	5	5	900.0
		5	10	6	900.0
03	1 HR	1	1	18	139.3
		2	1	19	139.3
		3	1	16	133.4
		4	1	17	133.4
		5	1	15	131.5
PART	24 HR	1	30	1	27.1
		2	24	1	17.0
		3	12	1	16.9
		4	15	1	16.7
		5	27	1	7.9

FIVE MAXIMUM SLIDING AVERAGE
UG/M**3

C-B TRACT
SITE AB23
SEPT 1981
OCCIDENTAL OIL SHALE, INC

COMPONENT	AVG. TIME	RANK	DAY	HOUR (BEG)	VALUE
S02	3 HR	1	16	11	17.5
		2	18	17	14.0
		3	16	14	9.6
		4	17	11	9.6
		5	18	20	8.7
S02	24 HR	1	18	10	7.4
		2	15	17	7.1
		3	17	5	5.1
		4	13	18	3.8
		5	7	24	3.6
C0	1 HR	1	28	14	300.0
		2	28	15	300.0
		3	28	16	300.0
		4	8	15	200.0
		5	8	16	200.0
C0	8 HR	1	28	10	300.0
		2	21	11	200.0
		3	29	12	200.0
		4	14	15	200.0
		5	8	13	200.0
03	1 HR	1	3	15	104.0
		2	12	12	104.0
		3	12	13	104.0
		4	12	14	104.0
		5	21	11	104.0
PART	24 HR	1	15	1	26.3
		2	30	1	23.5
		3	12	1	16.0
		4	24	1	7.1
		5	27	1	0.0

FIVE MAXIMUM SLIDING AVERAGE
UG/M**3

C-B TRACT
SITE AD56
SEPT 1981
OCCIDENTAL OIL SHALE, INC

COMPONENT	AVG. TIME	RANK	DAY	HOUR (BEG)	VALUE
PART	24 HR				
		1	12	1	21.2
		2	15	1	11.2
		3	24	1	7.3
		4	27	1	7.0
		5	30	1	3.2

SOURCE OF DATA REPORTED
PERCENT

C-b TRACT
TRAILER AB20
September, 1981
OCCIDENTAL OIL SHALE, INC.

NO NO_x NO₂ O₃ CO SO₂

MULTIPOINT
RECORDER *

DATA ACQUISITION
SYSTEM

100 100 100 100 100 100

OTHER SYSTEMS

EFFICIENCY 100 100 100 100 100 100

* Serves as Back-up to Data Acquisition System

SOURCE OF DATA REPORTED
PERCENT

WS WD SIGMA HWD 10m TEMP INVERS.
HT STB 50m STB 200m PART PRECIP.

MULTIPOINT
RECORDER *

DATA ACQUISITION
SYSTEM

100 100 100 100 100 87 87 87

OTHER SYSTEMS

100 91

EFFICIENCY

100 100 100 100 100 87 87 91

* Serves as Back-up to Data Acquisition System

C-b TRACT
TRAILER AB20
September, 1981
OCCIDENTAL OIL SHALE, INC.

SOURCE OF DATA REPORTED
PERCENT

C-b TRACT
TRAILER AB23
September, 1981
OCCIDENTAL OIL SHALE, INC.

NO	NO _x	NO ₂	O ₃	SO ₂	H ₂ S	CO	BAR PRESS.	SOLAR RAD.
----	-----------------	-----------------	----------------	-----------------	------------------	----	---------------	---------------

MULTIPOINT
RECORDER *

DATA ACQUISITION
SYSTEM

0	0	0	96	62	60	94	94	94
---	---	---	----	----	----	----	----	----

OTHER SYSTEMS

0	0	0	96	62	60	94	94	94
---	---	---	----	----	----	----	----	----

EFFICIENCY

* Serves as Back-up to Data Acquisition System

SOURCE OF DATA REPORTED
PERCENT

C-b TRACT
TRAILER AB23
September, 1981
OCCIDENTAL OIL SHALE, INC.

	TMP 10m	TMP 30m	TMP 60m	DT 60-10m	RH	PART	PREC
MULTIPOINT RECORDER *							
DATA ACQUISITION SYSTEM	94	94	94	94			
OTHER SYSTEMS					100	80	100
EFFICIENCY	94	94	94	94	100	80	100

* Serves as Back-up to Data Acquisition System

SOURCE OF DATA REPORTED
PERCENT

C-bTRACT
TRAILER AB23
September, 1981
OCCIDENTAL OIL SHALE, INC.

SIGMA HWD 10m	SIGMA HWD 30m	SIGMA HWD 60m	WS 10m	WS 30m	WS 60m	WD 10m	WD 30m	WD 60m
------------------	------------------	------------------	-----------	-----------	-----------	-----------	-----------	-----------

MULTIPOINT
RECORDER *

DATA ACQUISITION
SYSTEM

94	94	94	94	94	94	94	94	94
----	----	----	----	----	----	----	----	----

OTHER SYSTEMS

EFFICIENCY

94	94	94	94	94	94	94	94	94
----	----	----	----	----	----	----	----	----

*Serves as Back-up to Data Acquisition System

SOURCE OF DATA REPORTED
PERCENT

C-b TRACT
SITE AD42
September, 1981
OCCIDENTAL OIL SHALE, INC.

	WS 10m	WD 10m	TMP 10m	SOLAR RAD
OTHER SYSTEMS	100	100	100	100
EFFICIENCY	100	100	100	100

SOURCE OF DATA REPORTED
PERCENT

C-b TRACT
SITE AD56
September, 1981
OCCIDENTAL OIL SHALE, INC.

WS 10m	WD 10m	TMP 10m	PART
OTHER SYSTEMS			
			100
EFFICIENCY			
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DATA REPORT

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK, COLORADO

Met. Station #1
(AD42)

September 1981

PREPARED FOR:

Ed B. Baker
Project Environmental Coordinator
Occidental Oil Shale, Inc.
Star Route
Rifle, Colorado

PREPARED BY:

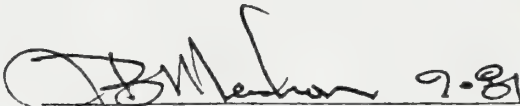
WestAq Corporation
Parachute, Colorado
(303) 285-7700

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DUE TO THE NATURE OF THE DIGITAL ACQUISITION SYSTEM AND COMPUTER REDUCTION, MINIMUM POSSIBILITY EXISTS FOR CHART INTERPRETATIONS, MACHINE ENTRY AND CALCULATION ERRORS, OR ARBITRARY DATA ALTERATION.

FOR THE CORPORATION:

 9-81
James B. Mershon, Vice Pres.

SYSTEM PERFORMANCE

NO DATA LOSS OR ANY ERRORS DETECTED.

THIS PERIOD REPRESENTS 100% DATA RECORDING
AND RETRIEVAL.

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

WIND ROSE VALUES

~~~~~ NUMBER OF OCCURRENCES: ~~~~~

	<3	3-7	7-12	>12MPH	
N	8	7	4	1	(20)
N N E	8	12	1	1	(22)
N E	12	30	5	2	(49)
E N E	20	93	7	2	(122)
E	20	67	17	1	(105)
E S E	13	34	10	1	(58)
S E	7	14	9	2	(32)
S S E	6	9	11	6	(32)
S	5	7	18	12	(42)
S S W	6	5	13	22	(46)
S W	6	6	18	10	(40)
W S W	3	14	8	9	(34)
W	5	15	17	8	(45)
W N W	9	15	6	2	(32)
N W	5	6	7	0	(18)
N N W	9	6	7	1	(23)

(142)(340)(158)(80)

%%~ PERCENTAGES OF OCCURRENCES: ~%%

	<3	3-7	7-12	>12MPH	
N	1.1	1.0	0.6	0.1	(2.8)
N N E	1.1	1.7	0.1	0.1	(3.1)
N E	1.7	4.2	0.7	0.3	(6.8)
E N E	2.8	12.9	1.0	0.3	(16.9)
E	2.8	9.3	2.4	0.1	(14.6)
E S E	1.8	4.7	1.4	0.1	(8.1)
S E	1.0	1.9	1.3	0.3	(4.4)
S S E	0.8	1.3	1.5	0.8	(4.4)
S	0.7	1.0	2.5	1.7	(5.8)
S S W	0.8	0.7	1.8	3.1	(6.4)
S W	0.8	0.8	2.5	1.4	(5.6)
W S W	0.4	1.9	1.1	1.3	(4.7)
W	0.7	2.1	2.4	1.1	(6.3)
W N W	1.3	2.1	0.8	0.3	(4.4)
N W	0.7	0.8	1.0	0.0	(2.5)
N N W	1.3	0.8	1.0	0.1	(3.2)

(19.7)(47.2)(21.9)(11.1)

FROM 244 0 THRU 273 2300 FOR 720 SAMPLES IN SEPTEMBER 1981

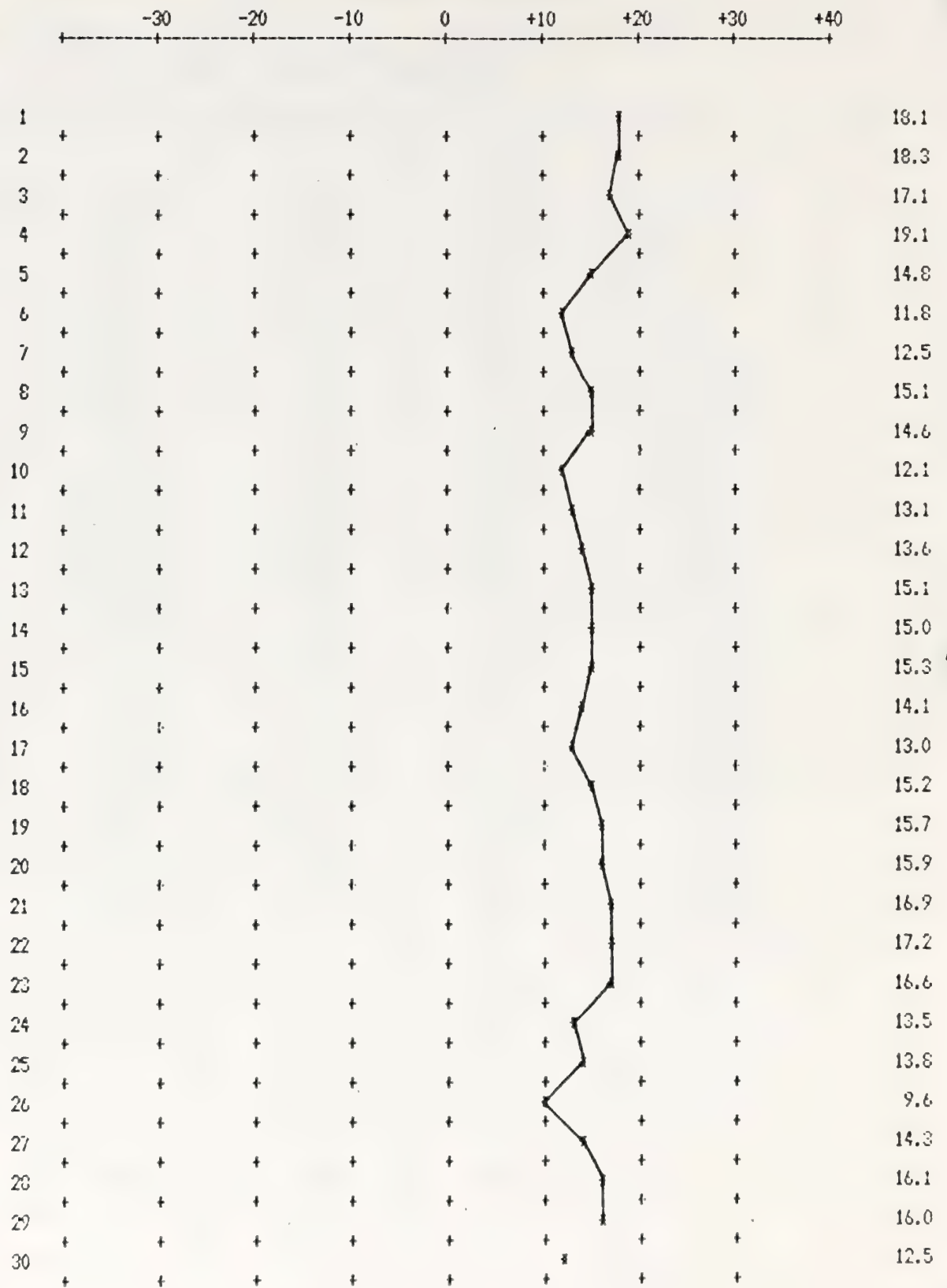
CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	5.0	103	10.4	0.00
100	5.4	97	10.1	0.00
200	4.6	101	9.3	0.00
300	4.0	118	9.3	0.01
400	4.3	113	8.9	0.00
500	4.1	99	8.7	0.01
600	4.5	107	8.6	0.02
700	4.1	112	10.2	0.15
800	4.7	115	13.9	0.40
900	6.4	200	17.4	0.60
1000	7.3	202	19.3	0.83
1100	6.9	207	20.9	0.93
1200	9.4	204	21.6	0.95
1300	10.8	234	21.7	0.83
1400	10.3	225	21.8	0.78
1500	10.3	205	21.2	0.50
1600	10.1	197	20.7	0.33
1700	8.7	220	19.5	0.15
1800	5.6	191	18.0	0.03
1900	5.7	140	16.1	0.01
2000	5.3	127	14.0	0.01
2100	4.8	108	12.5	0.00
2200	6.0	100	11.6	0.01
2300	5.1	99	10.8	0.00
MAX	26.5	357	27.3	1.44
MIN	0.0	0	0.3	0.00
AVG	6.4	151	14.9	0.27
	MPH	DEG	CENT	LGLY

--> --> --> --> --> --> --> MONTHLY AVERAGE FOR SEPTEMBER 1981

DEGREES CENTIGRADE



CB-1 TEMPERATURE PLOT

SEPTEMBER 1981

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	3.9	72	12.7	0.00
100	6.7	102	12.0	0.00
200	4.2	100	11.3	0.00
300	2.1	70	10.4	0.00
400	2.0	68	10.0	0.01
500	1.0	59	9.8	0.01
600	3.8	88	9.3	0.04
700	2.4	28	13.1	0.26
800	2.9	73	17.1	0.53
900	3.1	237	21.9	0.80
1000	13.7	204	22.1	0.99
1100	6.7	215	24.1	1.21
1200	15.7	257	24.7	1.19
1300	20.7	272	24.3	1.16
1400	3.6	240	26.7	1.16
1500	9.4	262	23.8	0.18
1600	7.2	201	24.4	0.17
1700	12.2	219	25.5	0.43
1800	16.1	220	23.4	0.09
1900	8.5	184	21.2	0.01
2000	14.5	167	20.0	0.01
2100	3.0	125	17.9	0.01
2200	6.4	55	15.2	0.01
2300	6.5	70	12.8	0.01
MAX	20.7	272	26.7	1.21
MIN	1.0	28	9.3	0.00
AVG	7.3	150	18.1	0.35
	MPH	DEG	CENT	LGly

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	4.5	73	13.6	0.00
100	4.3	35	13.8	0.00
200	4.3	80	13.1	0.00
300	4.0	109	13.7	0.00
400	1.6	72	13.5	0.00
500	3.4	47	11.8	0.01
600	4.8	73	15.8	0.04
700	3.4	83	17.0	0.11
800	0.4	339	20.3	0.58
900	10.1	201	21.2	0.26
1000	9.1	264	23.2	0.59
1100	1.4	180	23.6	0.63
1200	11.5	240	24.2	0.28
1300	10.2	194	25.8	1.31
1400	18.0	205	26.5	1.22
1500	15.1	200	26.5	0.90
1600	14.1	219	26.7	0.68
1700	13.0	342	19.0	0.12
1800	2.1	289	18.5	0.02
1900	8.3	1	16.3	0.01
2000	12.1	65	14.6	0.01
2100	5.1	10	14.1	0.01
2200	13.8	60	13.5	0.00
2300	2.5	137	12.7	0.00
MAX	18.0	342	26.7	1.31
MIN	0.4	1	11.8	0.00
AVG	7.5	147	18.3	0.28
	MPH	DEG	CENT	LGly

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	4.6	86	12.7	0.00
100	4.5	43	11.9	0.00
200	10.3	85	10.1	0.00
300	6.1	83	11.2	0.00
400	3.6	86	11.1	0.00
500	6.3	108	11.2	0.00
600	3.7	182	11.6	0.02
700	2.0	84	12.6	0.06
800	13.1	122	16.0	0.49
900	11.0	169	19.2	0.54
1000	11.3	185	19.8	0.25
1100	4.3	119	21.7	1.38
1200	9.5	102	25.4	1.30
1300	10.3	182	26.0	1.24
1400	11.7	224	24.1	0.86
1500	5.7	128	22.0	0.13
1600	9.3	166	24.2	0.78
1700	7.7	147	23.7	0.33
1800	8.0	51	21.8	0.09
1900	5.1	108	18.8	0.00
2000	2.9	118	16.3	0.01
2100	4.2	102	14.4	0.01
2200	7.3	105	11.7	0.01
2300	4.0	72	11.5	0.00
MAX	13.1	224	26.0	1.38
MIN	2.0	43	10.1	0.00
AVG	6.9	119	17.1	0.31
	MPH	DEG	CENT	LGLY

3 SEP. '81 (246)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	5.4	72	11.6	0.00
100	7.0	89	11.9	0.01
200	4.7	71	11.3	0.01
300	7.8	92	10.7	0.01
400	6.5	83	10.7	0.01
500	3.9	96	11.3	0.01
600	4.5	115	10.8	0.04
700	3.0	83	14.6	0.15
800	5.0	61	15.6	0.52
900	4.7	65	24.0	0.85
1000	7.4	206	25.9	1.04
1100	15.8	193	26.0	1.16
1200	17.0	204	27.3	1.23
1300	11.5	255	26.6	1.20
1400	12.3	218	20.0	1.12
1500	12.0	286	26.0	0.90
1600	8.6	222	27.2	0.60
1700	10.1	278	26.1	0.32
1800	8.2	218	24.9	0.08
1900	9.0	181	21.9	0.01
2000	18.7	170	19.7	0.00
2100	17.7	200	19.3	0.01
2200	18.6	194	18.5	0.01
2300	3.6	54	17.1	0.01
MAX	18.7	286	27.3	1.23
MIN	3.0	54	10.7	0.00
AVG	9.3	154	19.1	0.39
	MPH	DEG	CENT	LGLY

CATHEDRAL BLUFFS SHALE OIL COMPANY
 PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	8.0	74	16.8	0.01
100	3.7	137	16.3	0.01
200	0.2	194	12.8	0.01
300	7.5	122	17.2	0.01
400	2.8	193	17.0	0.01
500	0.2	1	15.1	0.01
600	5.1	120	15.6	0.02
700	4.7	180	13.9	0.04
800	3.8	219	16.6	0.24
900	15.1	154	18.0	0.35
1000	9.9	167	17.3	0.21
1100	10.8	202	17.4	0.17
1200	9.7	210	17.3	0.18
1300	8.0	221	17.0	0.18
1400	10.5	245	19.5	0.56
1500	13.7	205	18.7	0.11
1600	26.5	255	15.8	0.03
1700	4.4	282	11.1	0.03
1800	1.7	293	11.0	0.02
1900	2.8	346	10.6	0.01
2000	4.8	281	9.8	0.00
2100	2.7	310	9.7	0.00
2200	3.3	267	9.9	0.00
2300	4.7	312	10.0	0.01
MAX	26.5	346	19.5	0.56
MIN	0.2	1	9.7	0.00
AVG	6.9	208	14.8	0.09
	MPH	DEG	CENT	LGLY

5 SEP. '81 (248)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	5.3	288	9.6	0.01
100	1.8	34	9.6	0.00
200	3.2	297	9.9	0.01
300	5.5	296	9.4	0.01
400	5.6	305	9.4	0.01
500	0.9	249	9.4	0.01
600	4.1	279	9.5	0.02
700	1.5	328	9.6	0.07
800	4.1	290	9.9	0.08
900	6.3	280	10.4	0.36
1000	3.3	282	10.9	0.23
1100	3.5	290	12.2	0.40
1200	3.6	259	15.5	0.82
1300	4.7	271	12.2	0.27
1400	4.3	273	14.0	0.20
1500	1.5	219	15.8	0.80
1600	4.8	52	15.7	0.16
1700	8.2	136	14.4	0.13
1800	2.4	107	14.1	0.03
1900	1.2	156	13.1	0.00
2000	2.4	16	13.1	0.00
2100	3.9	155	13.3	0.00
2200	2.4	60	11.3	0.01
2300	1.0	170	11.3	0.01
MAX	8.2	328	15.8	0.82
MIN	0.9	16	9.4	0.00
AVG	3.6	212	11.8	0.15
	MPH	DEG	CENT	LGLY

6 SEP. '81 (249)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	3.4	249	11.2	0.01
100	7.8	245	11.2	0.01
200	3.1	241	11.1	0.01
300	6.2	252	10.8	0.01
400	5.0	253	10.5	0.01
500	4.6	254	10.0	0.01
600	2.4	264	9.9	0.01
700	0.9	216	10.4	0.08
800	1.9	294	10.7	0.11
900	3.3	265	12.6	0.32
1000	4.0	37	13.6	0.50
1100	3.9	303	15.8	1.21
1200	9.4	281	16.2	0.59
1300	7.8	273	18.6	1.27
1400	6.1	332	15.1	0.83
1500	2.3	293	18.2	0.05
1600	10.5	239	13.5	0.04
1700	2.1	119	14.0	0.07
1800	4.3	80	14.7	0.08
1900	2.6	116	13.1	0.00
2000	5.1	67	10.8	0.01
2100	4.2	121	10.5	0.01
2200	4.8	92	9.5	0.01
2300	2.2	27	9.0	0.01
MAX	10.5	332	18.6	1.27
MIN	0.9	27	9.0	0.00
AVG	4.5	205	12.5	0.22
	MPH	DEG	CENT	LGLY

7 SEP. 1981 (250)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	1.4	0	8.7	0.00
100	1.3	159	7.0	0.00
200	2.2	61	6.8	0.00
300	0.2	226	6.6	0.00
400	0.0	105	5.7	0.00
500	2.9	49	5.3	0.00
600	4.5	70	5.5	0.01
700	4.4	90	8.1	0.25
800	2.6	54	13.4	0.59
900	1.7	329	16.3	0.80
1000	4.4	298	19.6	1.07
1100	2.1	225	23.6	0.81
1200	4.9	117	25.6	1.38
1300	7.8	307	21.1	0.34
1400	4.6	249	24.3	1.11
1500	2.3	152	24.4	0.30
1600	11.2	325	21.4	0.26
1700	8.0	335	20.5	0.15
1800	3.8	23	19.1	0.04
1900	2.9	195	17.8	0.01
2000	3.7	144	16.0	0.01
2100	4.6	260	15.3	0.00
2200	2.7	42	15.2	0.01
2300	5.0	87	14.5	0.00
MAX	11.2	335	25.6	1.38
MIN	0.0	0	5.3	0.00
AVG	3.7	163	15.1	0.30
	MPH	DEG	CENT	LGLY

8 SEP. '81 (251)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	3.8	57	12.6	0.00
100	5.0	112	11.9	0.01
200	3.6	90	11.8	0.01
300	1.1	54	11.2	0.01
400	1.5	263	11.9	0.01
500	2.0	92	11.3	0.01
600	0.5	23	11.2	0.02
700	1.9	71	11.6	0.13
800	1.1	8	14.1	0.34
900	1.9	349	17.1	0.40
1000	4.2	19	19.5	0.94
1100	3.3	66	22.5	1.23
1200	4.5	103	22.3	0.67
1300	4.6	95	22.4	0.55
1400	9.9	278	20.1	0.26
1500	9.5	45	14.6	0.28
1600	1.2	250	13.1	0.09
1700	4.5	103	14.3	0.08
1800	2.3	212	13.6	0.03
1900	2.7	88	13.1	0.01
2000	1.5	73	12.8	0.01
2100	6.2	116	13.8	0.00
2200	10.0	118	12.5	0.01
2300	6.0	89	12.0	0.01
MAX	10.0	349	22.5	1.23
MIN	0.5	8	11.2	0.00
AVG	3.9	116	14.6	0.21
	MPH	DEG	CENT	LG LY

9 SEP. '81 (252)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	9.1	166	11.4	0.01
100	2.1	69	10.8	0.01
200	3.8	107	10.6	0.01
300	5.0	133	10.8	0.01
400	4.4	80	9.9	0.01
500	3.7	66	10.0	0.01
600	3.0	64	10.3	0.01
700	2.3	106	10.6	0.04
800	3.1	69	11.7	0.24
900	2.4	131	15.7	0.74
1000	6.2	320	16.5	0.46
1100	5.6	319	15.7	0.42
1200	5.0	72	15.7	0.21
1300	1.1	357	14.5	0.26
1400	7.1	324	16.2	0.20
1500	11.4	175	13.4	0.10
1600	4.5	117	12.9	0.07
1700	2.9	97	12.4	0.12
1800	2.9	192	12.3	0.04
1900	4.6	92	11.5	0.01
2000	6.9	133	11.1	0.00
2100	2.2	51	8.7	0.01
2200	3.8	133	8.4	0.00
2300	4.5	24	8.6	0.00
MAX	11.4	357	16.5	0.74
MIN	1.1	24	8.4	0.00
AVG	4.5	142	12.1	0.12
	MPH	DEG	CENT	-LGLY

10 SEP. 1981 (253)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	3.8	40	7.6	0.00
100	4.5	115	7.5	0.00
200	4.0	41	6.9	0.00
300	1.8	169	6.7	0.00
400	0.5	140	6.8	0.00
500	1.4	70	6.8	0.00
600	3.1	84	7.2	0.02
700	4.0	75	9.5	0.22
800	3.7	122	13.3	0.59
900	1.0	347	14.6	0.42
1000	5.7	33	16.2	1.16
1100	4.8	260	19.9	1.18
1200	3.3	235	22.4	1.28
1300	4.5	54	23.9	1.44
1400	5.8	340	22.3	1.35
1500	9.2	121	21.2	0.23
1600	5.4	216	17.8	0.04
1700	2.1	343	15.7	0.08
1800	1.5	254	14.8	0.03
1900	3.4	96	12.6	0.00
2000	6.8	68	11.6	0.00
2100	3.7	86	10.7	0.00
2200	6.3	81	10.2	0.00
2300	3.8	165	9.0	0.00
MAX	9.2	347	23.9	1.44
MIN	0.5	33	6.7	0.00
AVG	3.9	148	13.1	0.34
	MPH	DEG	CENT	LG/LY

11 SEP. 1961 (254)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	2.6	96	7.2	0.00
100	7.9	119	8.3	0.00
200	4.4	78	6.7	0.00
300	3.0	94	6.6	0.00
400	5.1	79	5.8	0.00
500	2.1	54	5.0	0.00
600	1.8	82	4.9	0.01
700	1.9	101	9.2	0.26
800	4.3	66	13.8	0.48
900	3.8	219	16.8	0.48
1000	4.9	249	19.9	1.14
1100	2.2	171	22.0	1.20
1200	4.3	293	21.0	1.32
1300	10.2	176	21.5	0.48
1400	12.3	159	21.5	0.88
1500	11.3	229	18.4	0.25
1600	11.9	208	18.4	0.27
1700	8.0	81	17.3	0.03
1800	4.8	96	15.4	0.04
1900	8.4	85	12.9	0.01
2000	5.8	88	12.4	0.01
2100	8.4	99	12.6	0.01
2200	12.2	142	15.1	0.01
2300	3.8	75	13.1	0.01
MAX	12.3	293	22.0	1.32
MIN	1.8	54	4.9	0.00
AVG	6.1	131	13.6	0.29
	MPH	DEG	CENT	LG/LY

12 SEP. 1981 (255)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	3.8	73	11.2	0.01
100	5.2	90	9.9	0.01
200	8.0	104	9.7	0.01
300	7.3	92	9.7	0.01
400	6.6	76	9.2	0.01
500	7.0	76	9.0	0.01
600	5.7	93	8.5	0.02
700	8.1	105	10.9	0.25
800	4.9	91	15.1	0.53
900	6.0	51	19.6	0.82
1000	3.3	342	20.6	1.03
1100	3.6	115	24.1	1.02
1200	11.0	260	23.7	1.20
1300	1.3	297	21.1	0.22
1400	23.8	94	18.5	0.14
1500	9.9	63	17.0	0.50
1600	6.8	104	20.0	0.33
1700	7.6	189	19.8	0.15
1800	9.5	84	17.5	0.02
1900	3.0	149	15.6	0.01
2000	2.9	259	14.7	0.01
2100	4.6	127	12.9	0.01
2200	4.2	97	12.2	0.01
2300	10.2	113	11.2	0.01
MAX	23.8	342	24.1	1.20
MIN	1.3	51	8.5	0.01
AVG	6.8	131	15.1	0.26
	MPH	DEG	CENT	LGLY

13 SEP. '81 (256)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	5.3	48	9.7	0.01
100	7.2	94	9.5	0.01
200	8.4	93	9.1	0.00
300	0.2	148	8.4	0.00
400	2.4	95	6.8	0.00
500	4.4	101	7.9	0.00
600	0.7	99	8.2	0.01
700	2.3	323	9.6	0.04
800	1.4	111	9.6	0.10
900	3.5	96	13.6	0.63
1000	3.0	172	21.0	1.10
1100	7.1	54	23.3	1.18
1200	5.6	23	24.1	1.22
1300	8.2	325	24.0	1.26
1400	8.3	79	26.4	1.29
1500	12.4	187	17.7	0.22
1600	11.5	198	19.8	0.53
1700	9.6	139	19.4	0.10
1800	11.9	184	18.0	0.02
1900	6.7	184	18.0	0.00
2000	5.0	103	15.2	0.01
2100	13.5	153	15.1	0.01
2200	2.1	104	13.3	0.01
2300	5.7	146	12.5	0.01
MAX	13.5	325	26.4	1.29
MIN	0.2	23	6.8	0.00
AVG	6.1	136	15.0	0.32
	MPH	DEG	CENT	LGLY

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	6.8	116	11.1	0.01
100	6.0	94	9.9	0.01
200	4.3	70	8.3	0.01
300	2.0	58	6.4	0.01
400	1.8	100	6.3	0.01
500	3.5	32	5.1	0.01
600	4.2	76	4.3	0.02
700	1.8	60	7.5	0.24
800	3.8	68	13.4	0.54
900	1.7	349	17.4	0.81
1000	5.3	256	20.8	1.03
1100	3.3	315	23.3	1.16
1200	8.0	275	22.2	1.28
1300	8.1	324	23.8	1.23
1400	15.2	257	25.6	1.20
1500	13.3	25	24.6	0.27
1600	7.6	335	23.5	0.17
1700	8.0	309	24.0	0.29
1800	7.3	345	22.8	0.04
1900	3.0	87	18.9	0.01
2000	1.1	263	14.8	0.00
2100	3.9	64	11.5	0.00
2200	4.0	200	12.9	0.01
2300	3.4	99	8.8	0.00
MAX	15.2	349	25.6	1.28
MIN	1.1	25	4.3	0.00
AVG	5.3	174	15.3	0.35
	MPH	DEG	CENT	LGLY

15 SEP. '81 (258)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	3.9	42	8.5	0.00
100	3.0	57	7.9	0.00
200	4.0	97	7.3	0.00
300	1.2	228	6.6	0.00
400	2.8	55	5.4	0.00
500	2.9	55	5.1	0.00
600	4.7	77	4.9	0.02
700	3.2	104	7.2	0.14
800	2.0	33	11.5	0.58
900	3.9	260	13.8	0.32
1000	6.4	231	17.4	1.02
1100	3.9	300	20.4	1.17
1200	11.4	261	21.5	1.24
1300	8.4	337	22.9	1.15
1400	12.2	350	23.1	1.01
1500	8.5	336	23.7	0.81
1600	8.2	335	22.9	0.55
1700	9.9	337	22.6	0.22
1800	8.3	357	20.9	0.03
1900	6.9	5	18.9	0.01
2000	4.2	111	16.1	0.00
2100	1.8	311	13.8	0.00
2200	2.5	45	9.0	0.01
2300	3.5	81	7.5	0.01
MAX	12.2	357	23.7	1.24
MIN	1.2	5	4.9	0.00
AVG	5.3	184	14.1	0.35
	MPH	DEG	CENT	LGLY

16 SEP. '81 (259)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	2.9	86	6.8	0.00
100	3.9	81	5.2	0.00
200	4.3	59	4.4	0.00
300	2.8	77	4.4	0.01
400	4.4	72	3.3	0.00
500	1.9	81	2.5	0.00
600	4.5	63	1.9	0.01
700	3.6	88	5.0	0.25
800	4.2	76	10.3	0.47
900	1.7	260	15.6	0.84
1000	6.2	269	17.0	1.06
1100	2.8	332	19.5	1.18
1200	8.3	309	21.0	1.21
1300	7.8	356	24.0	1.17
1400	6.2	1	24.4	1.03
1500	10.2	287	23.9	0.83
1600	13.5	46	23.3	0.56
1700	12.9	43	22.4	0.22
1800	5.6	20	21.2	0.04
1900	3.9	72	17.7	0.01
2000	4.3	69	12.6	0.00
2100	4.3	56	10.1	0.00
2200	1.3	118	8.2	0.00
2300	5.1	75	7.7	0.00
MAX	13.5	356	24.4	1.21
MIN	1.3	1	1.9	0.00
AVG	5.3	125	13.0	0.37
	MPH	DEG	CENT	LGly

17 SEP. '81 (260)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	2.7	63	7.1	0.00
100	6.5	90	6.6	0.00
200	7.6	60	5.7	0.00
300	2.5	94	5.0	0.00
400	5.1	62	4.3	0.00
500	4.0	64	3.5	0.00
600	4.2	78	3.7	0.01
700	3.0	73	7.4	0.21
800	0.2	331	13.7	0.46
900	3.3	247	17.3	0.83
1000	0.9	42	22.4	1.04
1100	5.4	291	24.1	1.18
1200	6.3	22	26.5	1.21
1300	6.5	257	26.2	1.16
1400	4.8	327	25.6	1.04
1500	9.0	271	26.3	0.83
1600	1.7	23	27.1	0.55
1700	6.9	268	25.0	0.21
1800	4.6	329	23.2	0.03
1900	2.8	282	19.7	0.01
2000	3.0	63	13.8	0.01
2100	4.8	60	10.9	0.00
2200	4.8	73	10.3	0.01
2300	5.6	58	9.2	0.01
MAX	9.0	331	27.1	1.21
MIN	0.2	22	3.5	0.00
AVG	4.4	147	15.2	0.37
	MPH	DEG	CENT	LGly

18 SEP. 1981 (261)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	6.5	65	9.6	0.01
100	4.1	74	9.7	0.01
200	7.1	56	9.4	0.01
300	5.7	48	9.4	0.01
400	5.5	90	8.6	0.01
500	5.5	81	7.6	0.01
600	4.6	75	6.5	0.02
700	3.7	56	9.1	0.21
800	6.0	53	15.0	0.46
900	3.2	19	21.1	0.81
1000	8.6	250	23.0	1.02
1100	3.1	126	26.2	1.20
1200	5.8	296	22.8	0.37
1300	11.4	167	25.6	1.20
1400	9.7	155	23.7	0.20
1500	14.0	158	23.8	0.92
1600	19.3	154	19.0	0.17
1700	9.7	147	21.0	0.21
1800	6.3	177	20.5	0.03
1900	5.5	65	15.7	0.01
2000	5.2	82	13.7	0.01
2100	3.9	69	12.2	0.00
2200	5.5	81	12.7	0.00
2300	5.5	72	11.2	0.00
MAX	19.3	296	26.2	1.20
MIN	3.1	19	6.5	0.00
AVG	6.9	109	15.7	0.29
	MPH	DEG	CENT	LGLY

19 SEP. '81 (262)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	5.7	88	10.6	0.01
100	4.2	92	9.5	0.01
200	4.6	72	10.0	0.01
300	4.7	75	10.1	0.01
400	4.5	74	10.1	0.01
500	2.9	90	10.8	0.01
600	4.0	58	9.2	0.02
700	3.1	36	10.8	0.07
800	3.5	76	16.6	0.43
900	4.0	357	20.5	0.79
1000	5.7	328	21.3	1.00
1100	8.3	300	23.2	1.16
1200	12.8	275	24.1	1.33
1300	4.5	158	23.5	0.27
1400	2.7	137	23.8	0.24
1500	9.5	281	23.0	0.21
1600	13.1	246	22.9	0.26
1700	18.2	280	21.1	0.02
1800	3.2	59	15.0	0.01
1900	9.6	126	14.7	0.00
2000	5.2	101	14.3	0.01
2100	4.8	125	12.3	0.00
2200	9.3	107	11.4	0.00
2300	7.5	161	11.8	0.00
MAX	18.2	357	24.1	1.33
MIN	2.7	36	9.2	0.00
AVG	6.5	154	15.9	0.25
	MPH	DEG	CENT	LGLY

20 SEP. '81 (263)

CATHEDRAL BLUFFS SHALE OIL COMPANY
 PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	9.8	260	12.7	0.00
100	6.6	101	12.2	0.00
200	2.6	159	12.0	0.00
300	7.2	142	12.0	0.00
400	6.6	84	10.2	0.00
500	6.9	100	9.8	0.01
600	7.3	79	8.9	0.01
700	4.7	64	10.9	0.20
800	7.0	62	15.1	0.43
900	6.1	168	20.2	0.78
1000	7.0	288	21.2	1.02
1100	8.5	219	23.0	1.15
1200	10.8	232	24.2	1.23
1300	15.1	211	23.1	0.36
1400	6.4	206	23.4	0.23
1500	7.9	249	22.2	0.92
1600	7.6	287	21.2	0.19
1700	2.4	300	21.4	0.12
1800	7.2	223	21.2	0.02
1900	8.4	188	19.7	0.01
2000	5.9	24	15.8	0.01
2100	5.0	126	16.3	0.01
2200	6.4	123	15.9	0.01
2300	2.8	64	14.1	0.01
MAX	15.1	300	24.2	1.23
MIN	2.4	24	8.9	0.00
AVG	6.9	165	16.9	0.28
	MPH	DEG	CENT	LGLY

21 SEP. '81 (264)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	2.5	288	14.1	0.01
100	6.2	157	12.9	0.00
200	3.9	81	11.4	0.00
300	0.4	188	10.9	0.00
400	3.8	89	12.6	0.00
500	12.3	126	12.5	0.00
600	3.3	86	9.5	0.01
700	5.0	61	11.7	0.24
800	6.3	42	15.9	0.19
900	19.2	188	21.1	0.79
1000	15.8	207	22.1	1.00
1100	11.2	217	23.6	1.22
1200	15.5	210	23.8	1.33
1300	24.3	197	24.2	1.26
1400	17.5	250	24.4	0.98
1500	18.2	238	24.9	0.78
1600	13.9	241	24.4	0.50
1700	17.6	229	23.4	0.18
1800	10.2	222	21.4	0.02
1900	8.7	187	18.6	0.01
2000	3.1	57	14.5	0.01
2100	5.2	64	12.2	0.01
2200	2.2	81	11.6	0.01
2300	4.8	74	11.4	0.01
MAX	24.3	288	24.9	1.33
MIN	0.4	42	9.5	0.00
AVG	9.6	158	17.2	0.36
	MPH	DEG	CENT	LGLY

22 SEP. '81 (265)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	3.1	71	10.2	0.00
100	4.0	59	9.1	0.00
200	6.9	57	10.6	0.01
300	3.4	61	10.9	0.01
400	4.8	89	9.8	0.01
500	4.5	54	10.5	0.01
600	2.3	75	9.9	0.02
700	3.1	63	9.1	0.11
800	3.8	50	14.7	0.46
900	3.1	76	20.6	0.79
1000	4.8	54	21.8	1.07
1100	6.2	1	22.3	0.34
1200	12.2	271	22.1	0.33
1300	7.1	282	22.2	0.29
1400	6.4	249	23.8	1.20
1500	4.7	195	25.0	0.84
1600	11.1	245	24.5	0.48
1700	10.2	214	23.5	0.16
1800	7.4	215	20.6	0.02
1900	13.3	172	17.9	0.00
2000	11.7	97	16.6	0.01
2100	4.7	98	15.5	0.01
2200	8.7	133	14.0	0.01
2300	5.2	121	13.2	0.00
MAX	13.3	282	25.0	1.20
MIN	2.3	1	9.1	0.00
AVG	6.4	125	16.6	0.26
	MPH	DEG	CENT	LGLY

23 SEP. '81 (266)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	6.5	81	11.8	0.00
100	4.7	63	12.4	0.00
200	4.5	69	11.7	0.00
300	3.3	122	12.2	0.00
400	6.0	39	10.1	0.00
500	1.5	160	11.7	0.00
600	5.3	68	9.3	0.01
700	4.0	59	10.5	0.12
800	4.3	84	14.4	0.36
900	11.6	213	17.4	0.45
1000	7.7	210	20.5	1.04
1100	4.6	316	18.6	0.52
1200	5.1	126	13.7	0.15
1300	1.5	104	13.0	0.19
1400	3.7	112	12.8	0.15
1500	6.8	69	15.4	0.15
1600	2.4	106	16.1	0.08
1700	3.2	86	15.8	0.04
1800	1.8	124	14.9	0.00
1900	2.4	81	13.1	0.00
2000	2.8	137	13.5	0.00
2100	2.7	78	11.1	0.01
2200	7.1	93	10.9	0.00
2300	10.2	100	12.3	0.01
MAX	11.6	316	20.5	1.04
MIN	1.5	39	9.3	0.00
AVG	4.7	113	13.5	0.14
	MPH	DEG	CENT	LGLY

24 SEP. '81 (267)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	6.5	111	11.9	0.00
100	10.6	151	13.4	0.00
200	4.7	112	11.5	0.00
300	10.8	139	13.7	0.01
400	8.3	149	14.3	0.01
500	6.9	166	13.3	0.01
600	6.0	150	13.0	0.01
700	15.7	170	14.2	0.18
800	26.2	179	16.1	0.55
900	18.5	188	16.4	0.54
1000	13.7	191	17.5	0.56
1100	20.7	193	18.8	1.25
1200	14.0	179	19.3	1.01
1300	26.5	211	20.0	0.97
1400	12.8	241	19.8	0.64
1500	21.6	222	18.7	0.38
1600	14.2	198	18.6	0.28
1700	17.9	269	11.8	0.01
1800	0.6	125	10.6	0.01
1900	2.8	100	9.7	0.00
2000	2.8	100	9.3	0.00
2100	2.0	6	8.1	0.01
2200	1.9	42	6.7	0.01
2300	5.2	74	5.2	0.00
MAX	26.5	269	20.0	1.25
MIN	0.6	6	5.2	0.00
AVG	11.3	153	13.8	0.27
	MPH	DEG	CENT	LGLY

25 SEP. '81 (268)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	4.3	78	5.2	0.00
100	5.5	76	3.7	0.00
200	2.6	63	2.4	0.00
300	1.3	106	1.6	0.00
400	2.1	110	0.6	0.00
500	4.8	111	0.3	0.00
600	4.5	113	0.5	0.01
700	4.2	75	1.0	0.14
800	3.6	63	6.1	0.36
900	1.9	318	9.3	0.70
1000	2.3	318	12.8	0.53
1100	11.3	266	14.2	0.68
1200	5.8	263	16.6	1.15
1300	25.4	268	17.8	0.70
1400	13.1	268	18.9	0.83
1500	11.1	292	18.6	0.74
1600	15.5	302	18.6	0.49
1700	6.9	287	18.2	0.10
1800	7.5	219	16.3	0.00
1900	8.7	185	13.9	0.00
2000	4.0	178	11.2	0.00
2100	4.1	94	9.0	0.00
2200	4.1	81	7.8	0.00
2300	5.2	58	6.4	0.00
MAX	25.4	318	18.9	1.15
MIN	1.3	58	0.3	0.00
AVG	6.7	175	9.6	0.27
	MPH	DEG	CENT	LGly

26 SEP. '81 (269)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	5.1	66	5.5	0.00
100	6.9	58	5.3	0.00
200	5.0	82	5.8	0.00
300	3.9	71	4.8	0.00
400	4.8	70	5.1	0.00
500	4.2	75	4.5	0.00
600	7.1	84	5.5	0.01
700	5.8	84	7.7	0.19
800	3.8	23	12.2	0.29
900	6.0	31	18.5	0.44
1000	7.0	202	21.3	0.98
1100	9.4	170	22.3	1.10
1200	15.5	242	23.0	1.13
1300	16.4	189	23.8	1.08
1400	16.3	212	24.1	0.94
1500	11.7	230	23.9	0.73
1600	9.8	205	23.8	0.48
1700	8.2	235	21.6	0.10
1800	3.8	240	19.6	0.01
1900	2.1	212	17.2	0.00
2000	2.6	91	13.2	0.00
2100	4.0	54	9.9	0.00
2200	9.0	96	11.6	0.01
2300	10.8	135	13.4	0.00
MAX	16.4	242	24.1	1.13
MIN	2.1	23	4.5	0.00
AVG	7.5	132	14.3	0.31
	MPH	DEG	CENT	LGLY

27 SEP. '81 (270)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	8.2	75	10.8	0.00
100	7.8	73	9.7	0.01
200	2.3	82	7.3	0.00
300	4.9	55	7.0	0.01
400	8.0	42	7.5	0.00
500	5.4	66	7.6	0.00
600	3.7	72	8.5	0.01
700	6.0	80	9.6	0.16
800	1.3	72	17.9	0.29
900	8.6	210	20.9	0.53
1000	17.2	189	21.4	0.66
1100	17.6	195	22.4	0.85
1200	9.9	185	24.3	1.12
1300	25.3	211	23.7	1.11
1400	25.5	202	23.9	0.94
1500	22.7	217	24.3	0.73
1600	14.5	185	24.2	0.48
1700	9.8	223	23.1	0.15
1800	5.3	209	20.1	0.00
1900	9.1	185	19.6	0.00
2000	9.8	172	17.9	0.00
2100	3.4	48	11.9	0.00
2200	5.9	77	10.7	0.00
2300	6.3	83	11.3	0.00
MAX	25.5	223	24.3	1.12
MIN	1.3	42	7.0	0.00
AVG	9.9	134	16.1	0.29
	MPH	DEG	CENT	LGLY

28 SEP. '81 (271)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	5.0	60	9.1	0.00
100	5.1	65	8.6	0.01
200	5.5	84	8.8	0.01
300	3.9	60	10.6	0.01
400	5.7	76	10.2	0.01
500	5.9	128	12.5	0.00
600	8.5	144	14.7	0.00
700	7.4	140	15.3	0.06
800	4.6	46	17.1	0.49
900	14.9	203	19.8	0.49
1000	15.0	233	20.8	0.57
1100	12.7	236	20.5	0.25
1200	19.2	192	21.5	0.40
1300	17.1	201	21.7	0.54
1400	11.4	222	22.1	0.57
1500	8.8	172	21.4	0.27
1600	14.6	220	21.0	0.19
1700	8.1	216	20.3	0.08
1800	5.6	211	18.8	0.00
1900	8.4	189	18.1	0.01
2000	1.1	221	15.0	0.00
2100	3.2	69	13.1	0.00
2200	4.9	50	11.5	0.00
2300	5.9	108	10.7	0.00
MAX	19.2	236	22.1	0.57
MIN	1.1	46	8.6	0.00
AVG	8.4	148	16.0	0.17
	MPH	DEG	CENT	LGly

29 SEP. '81 (272)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	4.4	158	11.0	0.00
100	8.8	164	15.4	0.00
200	3.1	176	12.3	0.00
300	4.1	76	11.3	0.00
400	7.0	277	11.3	0.00
500	7.2	261	10.3	0.01
600	12.2	273	9.2	0.00
700	7.0	278	8.3	0.06
800	6.7	281	8.8	0.12
900	10.2	27	9.9	0.28
1000	5.7	5	11.6	0.59
1100	2.0	21	13.9	0.33
1200	6.3	122	16.6	1.08
1300	8.7	269	17.7	1.05
1400	6.1	293	18.7	0.92
1500	6.4	352	19.2	0.78
1600	1.8	12	18.9	0.43
1700	10.2	356	17.1	0.12
1800	2.6	340	14.9	0.00
1900	4.6	86	13.4	0.00
2000	0.2	290	11.0	0.00
2100	2.1	10	8.2	0.00
2200	3.0	43	5.5	0.00
2300	3.7	51	4.9	0.00
MAX	12.2	356	19.2	1.08
MIN	0.2	5	4.9	0.00
AVG	5.6	176	12.5	0.24
	MPH	DEG	CENT	LGly

30 SEP. '81 (273)

OCTOBER

AIR MONITORING REPORT
FOR
PROTOTYPE OIL SHALE LEASE TRACT C-B

OCTOBER 1981

SUBMITTED
JANUARY 8, 1981



PREPARED BY :
OCCIDENTAL OIL SHALE, INC. OPERATOR
P.O. BOX 2687
GRAND JUNCTION, COLORADO 81501

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NITRIC OXIDE
(UG/43)

CB-TRACT
TRAILER AB20
OCT 1981
OCCIDENTAL OIL SHALE INC.

DAY	HOUR (LOCAL STANDARD TIME)																								AVE PEAK
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1
2	1	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1
3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
AV	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
PK	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5

NITRIC OXIDE
(UG/M3)

CB-TRACT
TRAILER AB23
OCT 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	1	1	1	2	2	4	4	5	5	5	5	5	3	5
2	5	5	5	4	4	4	5	4	4	2	2	0	1	1	0	0	1	1	2	2	2	2	2	2	5	3
3	4	4	4	5	4	5	5	5	5	5	4	2	2	2	2	1	1	1	1	2	2	2	2	2	3	5
4	2	2	2	2	4	4	4	4	4	4	10	6	4	4	7	4	4	4	9	4	4	4	10	5	5	10
5	5	5	5	5	5	5	5	5	5	0	1	(CA)	(CA)	2	5	4	4	4	4	4	4	5	5	6	4	6
6	5	5	5	5	7	6	6	6	7	(CA)	(CA)	(CA)	(CA)	2	2	2	2	2	2	2	4	4	5	5	5	7
7	5	5	5	5	5	5	5	5	5	4	2	2	2	2	2	4	4	4	4	4	4	4	4	4	4	6
8	4	4	4	4	4	4	4	4	4	5	5	2	2	4	4	7	11	6	7	6	6	6	6	7	5	11
9	7	7	7	7	7	7	7	7	7	5	5	10	5	4	2	10	5	5	5	5	5	6	6	6	7	15
10	7	7	7	7	7	7	7	7	7	6	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	7
11	5	4	5	5	7	7	7	7	7	6	4	4	4	4	5	4	4	4	4	5	4	4	4	4	4	9
12	6	5	5	5	11	7	7	7	7	4	2	4	4	4	4	4	4	4	4	4	4	4	4	6	6	13
13	6	5	5	5	11	7	7	7	7	13	2	2	4	4	4	4	4	4	4	4	4	4	4	6	6	12
14	6	10	10	7	7	10	7	7	7	7	2	2	4	4	2	4	5	23	6	5	5	5	5	12	7	23
15	7	7	7	7	7	7	7	7	4	2	2	4	5	5	5	6	5	6	6	6	6	6	6	6	6	11
16	6	6	5	5	5	5	5	5	2	2	4	4	2	4	4	4	4	5	5	5	5	5	5	5	4	6
17	6	6	5	5	5	5	5	5	2	2	4	4	2	4	4	4	4	5	6	6	6	6	6	6	4	18
18	6	6	5	5	5	5	5	5	2	2	4	4	2	4	4	4	4	7	7	7	7	7	7	7	9	17
19	6	6	5	5	5	5	5	5	2	2	4	4	2	4	4	4	4	11	4	4	4	4	4	4	6	11
20	7	7	7	7	7	7	7	7	2	4	4	4	1	2	2	2	6	4	4	4	4	4	4	4	6	11
21	6	6	7	7	7	7	7	6	2	11	15	6	5	5	10	6	5	2	6	6	7	6	6	6	7	15
22	7	7	7	7	7	7	7	10	7	7	7	10	10	7	6	7	13	6	6	5	5	5	5	5	8	13
23	7	7	7	7	7	7	7	10	7	10	7	6	6	5	2	4	6	5	5	5	5	5	5	5	6	13
24	7	7	7	7	7	7	7	10	7	7	7	6	6	5	6	6	6	9	6	6	6	6	6	6	7	17
25	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	6	6	6	6	6	6	6	7	11
26	7	7	7	7	7	7	7	7	7	6	2	2	4	4	4	2	4	4	4	4	4	4	4	4	5	7
27	5	5	5	5	5	5	5	5	5	4	2	2	4	4	4	4	4	4	4	4	4	4	4	4	5	6
28	5	5	5	5	5	5	5	5	5	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	4	5
29	4	4	4	4	4	4	4	4	4	1	2	4	4	4	5	7	16	9	4	6	6	6	6	6	7	16
30	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	2	4	6	6	6	6	6	1	7
31	7	7	7	7	7	7	7	12	11	9	11	10	9	9	9	9	9	9	7	9	9	9	9	9	9	12
AV	6	7	5	7	7	7	7	7	6	5	5	5	4	4	4	5	5	6	5	5	5	6	6	6	7	6
PM	9	10	10	11	11	10	13	12	15	11	15	10	10	9	10	10	16	23	9	9	9	13	11	18	18	23

OXIDES OF NITROGEN
(UG/M3)

CB-TRACT
TRAILER AB20
OCT 1981
OCCIDENTAL OIL SHALE INC.

DAY	HOUR (LOCAL STANDARD TIME)																								AVE PEAK
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AV	1	0	0	0	0	1	0	1	1	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
SD	4	2	0	0	0	4	0	0	4	4	4	2	2	2	2	2	0	4	4	2	2	2	2	2	6

OXIDES OF NITROGEN
(UG/43)

CB-TRACT
TRAILER AB23
OCT 1981
OCCIDENTAL OIL SHALE INC.

DAY	HOUR (LOCAL STANDARD TIME)																								AVE PEAK
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	9
2	13	9	9	8	4	3	11	6	8	6	0	0	4	0	2	4	4	6	8	9	9	9	9	9	6
3	6	6	6	9	4	4	5	8	8	8	0	6	0	0	0	0	2	4	2	4	4	4	4	4	5
4	6	4	4	4	5	6	5	8	8	8	20	15	8	8	17	9	6	6	21	9	9	28	15	9	10
5	15	15	15	11	7	17	15	15	17	(PF)	0	(CA)	(CA)	11	15	9	11	11	11	11	11	13	17	17	10
6	11	11	11	11	11	13	13	15	15	15	0	(PF)	(PF)	4	6	6	6	6	6	8	8	9	9	9	11
7	11	11	11	11	11	13	13	15	15	15	6	6	0	6	8	8	8	8	8	8	9	9	9	9	15
8	9	9	9	9	9	17	17	19	17	13	9	6	6	8	8	19	32	13	17	11	11	13	13	13	32
9	15	15	15	15	15	15	15	15	15	15	11	11	11	6	8	24	9	9	9	11	11	13	13	13	30
10	15	17	17	15	15	15	15	15	17	9	9	9	8	8	8	8	8	8	8	9	9	9	9	8	11
11	9	9	8	9	9	8	8	8	9	9	9	9	8	8	9	9	9	9	9	9	11	11	19	11	9
12	11	13	13	13	25	21	19	15	15	32	6	6	8	8	8	8	8	8	9	9	21	24	13	13	14
13	13	13	17	15	13	13	15	15	15	8	0	8	6	8	8	8	8	9	9	11	11	11	11	13	34
14	17	23	26	15	15	21	15	15	15	6	6	8	8	8	6	8	11	64	17	17	15	13	15	17	36
15	15	15	15	17	17	15	17	15	9	6	30	11	11	11	13	13	11	13	13	13	15	13	13	13	14
16	13	13	13	13	11	11	11	13	6	6	6	8	8	8	9	9	9	9	9	11	11	11	11	11	10
17	13	13	13	15	13	13	15	17	17	17	17	17	17	15	15	17	15	15	15	17	21	21	26	41	17
18	23	19	19	17	19	19	20	19	17	19	23	21	23	19	19	17	17	41	19	17	19	19	24	24	21
19	24	19	24	35	29	25	30	34	9	9	13	15	15	15	21	8	15	8	8	9	11	11	11	11	17
20	13	15	15	15	15	15	17	9	8	8	8	4	6	4	6	6	6	6	8	8	9	9	11	11	10
21	13	13	13	15	15	21	21	15	8	32	45	19	17	13	26	15	9	11	13	15	13	13	13	15	17
22	23	24	17	23	32	24	24	38	24	23	24	26	23	15	11	17	13	13	15	15	15	17	19	30	23
23	21	21	34	45	34	24	23	23	8	4	8	8	9	19	6	9	36	9	11	11	13	13	13	15	17
24	17	17	17	23	17	17	17	21	19	17	15	13	11	11	17	19	15	26	17	17	32	19	19	41	19
25	17	17	17	26	19	17	17	17	17	17	15	15	15	17	15	13	13	13	13	13	11	13	13	13	16
26	15	15	15	15	15	17	17	17	15	13	6	6	8	8	8	8	8	9	9	11	13	11	11	11	12
27	13	13	13	13	13	13	15	13	13	11	8	8	9	9	9	11	11	11	11	11	11	11	11	11	12
28	11	11	11	11	13	13	13	13	13	9	9	9	11	9	9	9	6	8	9	9	9	9	9	9	10
29	11	11	11	11	11	13	11	11	9	6	8	8	9	11	11	23	39	26	17	13	15	15	15	(PF)	14
30	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	15	9	11	11	13	15	15	15
31	17	21	28	23	29	25	29	30	25	19	24	21	17	19	19	17	19	19	17	19	21	19	28	36	22
AV	14	14	15	15	15	15	17	16	14	12	13	11	10	10	11	11	12	13	11	11	13	13	14	16	13
PK	24	26	38	45	34	24	60	38	34	32	45	26	23	19	26	24	39	64	21	19	32	28	28	41	64

NITROGEN DIOXIDE
(UG/43)

CB-TRACT
TRAILER AB20
OCT 1981
OCCIDENTAL OIL SHALE INC.

DAY	HOUR (LOCAL STANDARD TIME)																								AVE PEAK
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
2	0	0	0	0	0	0	5	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AV	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PK	0	0	0	0	0	0	0	4	0	2	0	0	0	0	0	0	0	4	4	2	0	0	0	0	6

CB-TRACT
TRAILER AB23
OCT 1981
OCCIDENTAL OIL SHALE INC.

II-635

OZONE
(UG/43)

CB-TRACT
TRAILER AB20
OCT 1981
OCCIDENTAL OIL SHALE INC.

HOOR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	49	47	47	47	49	45	45	51	63	74	80	84	88	86	84	80	80	78	59	51	51	55	55	57	63	88
2	55	55	57	55	53	49	35	31	41	55	57	59	63	65	59	53	51	37	45	41	45	45	47	35	49	65
3	39	35	27	47	43	41	47	65	65	61	63	63	69	73	74	74	74	71	65	71	73	65	65	71	60	74
4	75	78	69	53	51	49	49	57	51	61	61	74	71	71	69	73	69	61	67	61	55	65	63	67	63	78
5	74	67	63	57	57	53	47	39	63	74	76	73	82	82	80	82	69	57	45	41	31	31	29	29	58	82
6	29	27	27	27	29	27	27	31	41	63	70	80	78	78	74	74	73	61	39	37	37	35	35	35	48	80
7	35	33	31	31	35	33	31	37	59	71	71	74	78	76	78	78	78	76	65	49	53	67	74	61	57	78
8	67	69	63	61	51	41	61	69	71	76	71	71	67	80	76	73	69	63	65	53	47	35	27	27	61	80
9	35	33	35	35	35	27	24	25	39	57	69	71	73	74	74	74	71	53	39	41	41	43	43	43	48	74
10	45	49	51	49	51	47	45	51	57	76	80	86	84	84	82	76	76	71	53	49	51	53	59	59	62	86
11	45	49	47	45	51	61	61	61	59	59	59	59	53	53	59	63	59	61	59	51	47	59	33	49	55	63
12	49	49	47	45	53	59	27	29	45	53	73	74	74	78	80	78	76	65	65	53	49	59	63	65	58	80
13	49	41	33	31	35	25	25	27	29	47	74	74	78	80	76	76	76	63	47	53	61	69	67	55	54	80
14	33	35	57	43	41	61	51	61	73	76	78	76	78	80	82	80	73	73	65	45	31	24	27	27	57	82
15	22	22	14	16	20	24	20	24	27	37	41	43	47	49	49	49	49	47	43	39	43	49	59	69	38	69
16	67	69	73	63	71	67	49	57	76	80	80	82	84	84	82	80	80	78	63	51	43	45	51	55	68	84
17	49	41	51	41	37	55	33	39	43	57	61	63	65	65	63	65	59	47	37	33	33	31	24	18	45	65
18	18	20	15	14	20	16	16	18	29	53	69	73	74	73	74	74	69	57	37	33	31	31	29	31	41	74
19	31	27	27	25	29	29	27	27	35	39	39	65	55	67	69	69	63	61	43	41	43	39	39	41	43	69
20	43	43	43	43	43	43	41	45	49	65	71	73	73	71	71	71	69	65	57	55	51	47	43	39	55	73
21	39	39	39	37	33	24	24	27	39	45	49	57	69	71	73	73	69	57	41	33	31	31	29	33	44	73
22	31	31	31	29	27	25	22	27	39	47	61	76	80	82	80	78	74	57	45	43	43	43	41	43	48	82
23	43	39	34	39	39	39	35	39	47	57	71	74	78	78	73	71	69	59	53	39	41	43	43	45	52	78
24	47	45	45	43	41	39	41	41	45	47	71	71	71	69	69	63	57	53	45	53	55	51	51	49	53	71
25	51	45	41	39	37	35	39	39	45	53	59	67	69	71	71	71	61	49	49	51	49	51	53	51	52	71
26	49	51	49	49	49	49	49	49	59	67	69	69	69	63	60	84	76	59	49	49	51	53	53	51	58	84
27	49	51	51	53	55	51	55	55	65	78	90	92	96	98	98	94	88	67	53	55	61	61	65	59	68	98
28	59	65	63	63	65	65	71	63	71	74	74	71	71	69	69	69	67	67	61	57	63	61	59	57	65	74
29	47	57	57	49	49	37	67	49	67	73	80	76	76	78	76	76	80	78	65	57	57	71	76	61	64	80
30	49	49	49	49	49	49	74	74	73	71	73	74	76	76	76	73	69	59	51	47	47	47	45	47	64	80
31	43	45	43	45	45	47	47	49	53	59	65	71	78	80	84	82	67	57	43	37	37	37	35	37	54	84
AV	45	45	45	44	44	42	42	44	52	61	68	72	73	74	74	73	70	62	52	47	47	48	48	47	55	
PK	76	78	73	67	80	80	78	74	76	80	90	92	96	98	98	94	88	78	67	71	73	71	76	71	98	

070NE
(UG/M3)

CR-TRACT
TRAILER AB23
OCT 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	67	71	69	43	45	47	45	51	73	65	65	71	78	69	69	76	78	78	71	69	69	69	73	78	66	78
2	78	80	75	64	63	61	64	65	53	47	57	59	59	59	61	49	47	43	41	41	45	43	47	49	56	80
3	43	47	44	53	45	57	63	64	65	65	65	67	69	71	71	73	71	69	71	69	71	67	71	73	63	73
4	74	74	67	64	63	63	65	64	67	67	51	61	(CA)	69	63	65	63	61	53	57	51	57	63	69	62	74
5	63	57	44	47	44	61	74	64	67	65	37	(CA)	55	69	71	74	69	63	63	59	45	53	51	61	60	74
6	63	61	61	54	55	55	57	53	49	61	74	53	55	69	51	49	53	49	41	43	45	47	45	39	54	74
7	35	37	43	41	43	45	47	44	51	47	53	59	63	61	63	63	63	59	57	57	61	61	59	55	53	63
8	54	54	57	57	51	47	47	57	(PF)	76	71	69	76	84	71	67	63	71	61	61	57	55	55	53	64	84
9	51	47	41	35	34	35	33	34	34	55	63	63	64	73	73	61	71	65	69	69	61	65	69	63	56	73
10	61	54	57	65	64	67	64	67	69	80	82	86	86	84	80	76	73	71	71	67	63	59	59	57	70	86
11	54	57	57	54	57	57	55	55	53	55	57	55	53	49	55	55	53	57	55	59	57	80	65	71	58	80
12	67	61	57	61	44	44	43	51	35	47	76	74	73	74	74	73	73	69	69	65	55	53	59	59	61	76
13	53	49	45	43	65	63	64	55	63	67	76	76	78	80	76	76	76	71	59	55	59	71	67	51	64	80
14	55	47	53	53	51	53	64	67	69	71	76	76	78	78	80	80	69	39	65	51	51	45	41	35	61	80
15	35	45	35	35	37	41	33	37	37	45	37	41	43	45	49	51	53	49	43	45	47	49	61	80	45	80
16	71	74	62	62	62	62	60	74	74	80	82	82	82	82	80	78	78	74	73	74	73	69	67	63	77	82
17	65	61	53	41	34	31	24	45	47	57	61	63	61	63	61	61	59	57	41	35	31	33	31	33	48	65
18	24	31	31	33	41	31	27	27	37	51	65	65	64	73	64	71	69	55	51	51	53	49	49	43	48	73
19	47	44	43	35	41	41	37	54	65	45	55	57	61	57	53	59	57	57	53	53	53	55	59	61	50	61
20	65	64	65	63	64	63	61	54	49	64	64	69	71	67	63	63	65	63	63	61	59	57	57	59	63	71
21	61	54	61	57	51	45	45	34	49	44	45	65	63	67	63	71	71	67	57	53	51	51	47	53	56	71
22	41	37	47	41	31	37	16	25	37	44	65	71	76	78	78	74	76	73	63	65	65	67	63	53	55	78
23	63	67	57	41	51	57	77	51	45	61	69	74	74	69	73	69	55	69	71	73	71	71	69	65	63	74
24	64	65	47	63	65	64	64	65	67	64	73	73	73	71	63	57	61	49	51	55	51	53	51	43	62	73
25	47	44	47	43	37	41	45	34	45	59	65	69	69	69	69	71	69	63	65	67	67	65	63	63	58	71
26	65	65	61	54	74	63	61	61	64	64	67	69	71	73	74	74	73	69	65	61	59	63	63	63	65	74
27	71	64	64	64	71	63	67	73	73	73	82	82	84	84	86	84	80	76	74	73	73	74	74	74	75	88
28	73	74	74	71	71	71	73	71	71	64	64	59	57	57	55	55	55	57	53	53	53	53	51	49	62	74
29	51	57	57	43	47	57	63	63	63	64	64	67	71	71	69	59	61	65	59	61	57	53	51	67	61	73
30	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	65	51	55	41	29	29	33	33	()	65
31	33	35	27	31	31	35	43	31	31	31	37	41	45	51	53	53	51	39	25	31	37	35	24	18	36	53
AV	57	57	52	52	52	53	53	52	55	60	64	60	68	69	67	66	65	61	58	57	56	57	56	55	59	
PK	78	80	72	57	52	62	60	74	74	80	82	86	86	88	86	84	80	78	74	74	73	80	74	80		88

CARBON MONOXIDE
(UG/43)

CB-TRACT
TRAILER AB20
OCT 1981
OCCIDENTAL OIL SHALE INC.

DAY	HOUR (LOCAL STANDARD TIME)																								AVE PEAK	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	600	600	700	800	800	800	700	700	700	600	700	700	600	300	500	600	300	300	600	600	700	800	700	800	600	800
2	800	800	900	900	900	1000	900	1000	700	700	700	600	0	0	100	0	100	100	100	100	200	300	200	300	500	1000
3	300	300	300	300	300	500	500	500	500	500	500	500	500	300	300	200	200	100	100	200	200	300	100	200	300	500
4	200	200	200	300	200	200	300	500	500	500	500	500	500	300	200	200	300	300	200	200	500	300	300	200	300	500
5	200	100	100	200	100	100	200	200	200	200	300	200	0	100	100	100	200	200	200	200	300	500	200	200	200	500
6	100	200	300	300	300	300	500	600	600	500	500	500	200	200	300	300	300	300	300	300	300	300	300	300	400	600
7	300	200	300	500	300	300	500	500	500	600	600	500	100	200	200	200	200	200	200	200	200	300	300	300	600	600
8	300	300	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	200	200	200	300	300	200	100	200	300	300	200	300	300
9	100	200	300	300	300	300	300	300	300	300	300	100	200	100	100	100	100	100	0	0	0	0	0	0	0	0
10	300	300	300	300	300	500	500	500	500	600	600	600	300	300	300	300	300	300	300	300	300	300	300	300	300	300
11	500	500	500	500	500	500	500	500	500	600	500	500	200	100	100	0	0	0	0	0	0	500	500	500	500	600
12	100	100	100	100	100	100	200	300	300	200	200	0	200	600	700	800	600	800	700	800	800	700	700	700	400	800
13	700	700	800	800	900	900	1100	1000	900	1300	1100	900	600	600	600	600	600	600	600	700	600	600	600	600	700	800
14	600	600	700	500	500	500	800	900	800	700	700	700	300	600	600	600	600	600	600	600	700	700	600	700	800	1300
15	600	600	700	700	700	800	1000	900	900	1000	900	700	300	500	600	600	600	600	600	600	700	700	600	700	600	900
16	600	600	600	600	700	700	800	900	900	700	700	700	100	0	100	200	100	100	100	100	100	100	100	100	400	900
17	200	100	200	200	200	200	200	100	200	100	100	200	300	300	300	500	500	500	300	500	300	300	300	300	300	500
18	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	600	600	600	600	600	600	600	700	700	700	700	700	700
19	700	700	700	800	800	700	700	800	700	100	200	200	0	100	300	500	500	600	600	600	600	600	600	600	600	800
20	600	700	700	700	700	700	700	700	700	600	800	700	200	0	100	100	100	100	0	100	0	100	100	100	100	400
21	200	200	200	200	200	100	100	100	0	0	0	0	100	200	500	500	500	300	200	300	200	300	300	500	500	800
22	300	500	500	500	500	600	500	500	0	100	100	100	300	600	700	700	700	800	700	700	800	800	900	900	500	900
23	900	900	1000	1000	900	900	1000	900	900	1000	1000	400	300	200	300	500	500	500	500	500	500	500	500	500	700	1000
24	500	300	500	500	500	500	500	500	500	600	600	600	500	500	500	300	500	300	300	500	300	300	300	300	400	600
25	300	300	300	300	300	200	300	200	200	300	300	300	200	200	200	300	300	200	100	200	300	200	200	200	300	300
26	300	200	300	300	300	300	300	300	300	300	300	300	100	(CA)	0	100	100	100	100	100	0	200	100	100	200	300
27	100	100	200	200	200	200	200	200	0	0	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	200	300
28	(OF)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	(OE)	300	500	200	300	300	200	300	500	500	500	500
29	600	500	500	500	700	700	500	500	500	500	500	500	200	200	300	300	300	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	500	700
30	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	0	0	0	0	0	0	0	0	0	0	0	0	0
31	100	100	100	100	100	100	100	100	100	100	200	200	200	300	300	500	300	300	200	300	200	300	200	200	200	500
AV	400	400	500	500	500	500	500	500	500	500	500	400	300	300	300	400	400	300	300	400	400	400	400	400	400	400
PK	900	900	1000	1000	900	1000	1100	1000	1100	1300	1100	900	600	600	700	800	800	800	700	800	800	800	900	900	900	1300

CARBON MONOXIDE
(UG/43)

CB-TRACT
TRAILER AB23
OCT 19d1
OCCIDENTAL OIL SHALE INC.

MOON (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	100	100	100	0	0	0	0	0	0	0	100
2	0	0	0	0	0	0	0	0	0	0	0	0	0	200	(CA)	0	0	0	0	0	0	0	0	0	0	200
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PK	200	0	100	100	100	100	200	200	200	500	500	100	100	500	500	100	100	100	100	100	100	100	500	500	500	600

SULFUR DIOXIDE
(015/33)

CB-TRACT
TRAILER AB20
OCT 1981
OCCIDENTAL OIL SHALE INC.

DAY	HOUR (LOCAL STANDARD TIME)																								AVE PEAK
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
2	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
7	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
8	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
9	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
10	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
11	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
12	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
13	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
14	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
15	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
16	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
17	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
18	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
19	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
20	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
21	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
22	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
23	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
24	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
25	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
26	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
27	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
28	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
29	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
30	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
31	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
AV	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
PK	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5

SULFUR DIOXIDE
(UG/M3)

CB-TRACT
TRAILER AB23
OCT 1981
OCCIDENTAL OIL SHALE INC.

DAY	HOUR (LOCAL STANDARD TIME)																								24	AVE	PEAK
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23				
1	0	0	0	0	3	3	13	13	3	10	8	8	3	3	0	0	0	0	0	0	0	0	0	0	3	13	
2	3	3	0	0	0	0	0	0	0	0	0	0	0	3 (CA)	0	0	0	0	0	0	0	0	0	0	0	3	
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	3 (CA)	3 (CA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	5 (PF)	6	5	3	3	3	0	0	0	0	0	0	0	3	3	3	1	8	
8	5	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5		
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
19	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
21	0	0	0	0	0	0	0	0	0	5	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0		
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
24	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
25	0	0	0	0	0	0	0	0	0	0	3	3	0	3	0	0	0	0	0	0	0	0	0	0	0		
26	0	0	0	0	0	0	0	0	0	0	3	3	5	8	5	3	0	0	0	0	0	0	0	0	0		
27	0	0	0	0	0	0	0	0	0	5	8	8	10	13	16	18	16	13	13	10	8	10	10	8	7		
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5		
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16		
30 (PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(PF)	0		
31 (CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	(CA)	0		
AV	1	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1		
PK	18	8	3	3	3	5	13	16	16	10	8	8	10	13	16	18	18	16	13	10	8	10	10	8	18		

CB-TRACT
TRAILER AB23
OCT 1981
OCCIDENTAL OIL SHALE INC.

II-642

PARTICULATE DATA
05/83

CH-TRACT
OCT 1981
OCCIDENTAL OIL SHALE, INC

DAY	AR20	STATION AR23	AD56
3	4.1	4.1	4.0
6	4.1	4.1	4.1
9	4.1	4.1	4.0
12	4.1	4.0	4.0
15	4.0	4.0	4.0
18	4.1	4.1	4.0
21	4.2	4.2	4.1
24	4.1	4.1	4.1
27	4.1	4.1	4.1
30	4.1	0.0	4.1
PK	4.2	4.2	4.1
AV	4.1	3.7	4.1
GM	4.1	2.2	4.1

WIND SPEED @10M
METERS/SEC

CB-TRACT
TRAILER AB20
OCT 1981
OCCIDENTAL OIL SHALE INC.

MOON (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	(CM)	0	0	0	0	0	2	3	1	2	3	3	2	0	2	3	3	1	1	2	2	2	2	2	2	3
2	(CM)	3	(CM)	2	(CM)	1	(CM)	1	1	1	3	1	4	3	1	0	0	0	2	1	1	1	1	0	2	4
3	(CM)	2	0	0	1	0	0	1	1	1	2	1	1	1	3	0	3	2	0	0	1	1	1	3	2	4
4	2	2	2	2	2	2	0	0	0	0	0	1	1	1	1	0	1	0	2	0	1	1	1	2	1	3
5	1	1	1	0	1	1	1	3	2	1	1	2	2	1	1	0	1	1	1	1	2	2	2	2	2	3
6	1	1	1	0	1	1	2	3	3	1	1	1	2	2	1	0	2	1	0	1	2	3	2	4	2	4
7	4	2	3	4	3	3	3	3	3	3	4	4	4	4	4	4	4	3	1	1	2	1	3	3	3	4
8	4	4	3	2	1	0	3	1	0	2	3	1	1	1	2	1	0	0	1	1	0	(CM)	(CM)	(CM)	1	4
9	(CM)	0	(CM)	0	1	1	(CM)	(CM)	(CM)	(CM)	1	0	0	0	2	3	1	0	1	1	2	2	3	2	1	4
10	3	1	1	1	2	1	1	2	1	2	3	4	4	3	3	3	2	0	0	2	3	3	3	1	1	5
11	1	1	1	2	4	4	3	4	3	4	5	3	3	0	4	2	4	3	4	2	1	1	(CM)	1	2	5
12	1	1	1	1	1	1	(CM)	0	0	0	4	3	2	4	3	3	3	2	2	0	1	0	1	1	1	4
13	0	1	(CM)	1	3	0	(CM)	1	2	1	4	3	3	4	3	1	1	(CM)	0	1	0	(CM)	(CM)	(CM)	1	4
14	(CM)	(CM)	(CM)	(CM)	0	1	(CM)	1	2	1	2	3	3	2	3	3	2	1	0	2	2	2	3	2	1	3
15	(CM)	(CM)	(CM)	(CM)	1	1	(CM)	0	(CM)	1	2	3	4	4	3	3	2	0	0	2	0	3	3	1	2	5
16	2	3	3	2	1	0	1	2	2	2	3	4	4	4	3	3	3	3	2	2	1	0	1	1	2	4
17	(CM)	(CM)	0	(CM)	(CM)	(CM)	0	1	1	0	1	1	0	1	0	2	2	1	(CM)	(CM)	(CM)	(CM)	0	0	1	3
18	0	0	0	1	0	0	1	2	1	2	2	3	4	4	3	3	2	1	(CM)	(CM)	0	3	3	2	2	4
19	2	1	1	1	2	3	1	(CM)	1	1	1	2	0	1	1	1	1	1	1	1	0	1	1	2	2	4
20	2	3	3	4	3	4	2	4	4	1	1	2	3	3	3	3	2	1	0	1	1	1	2	2	2	4
21	2	2	2	2	1	0	2	1	1	2	2	4	3	4	3	3	3	0	1	1	1	1	1	2	2	4
22	2	2	2	1	2	1	2	2	2	1	1	3	2	2	1	1	1	1	0	0	1	1	1	1	2	3
23	0	0	1	1	3	2	1	2	3	1	(CM)	(CM)	1	1	4	5	3	(CM)	(CM)	1	1	1	3	2	2	5
24	2	2	2	2	0	(CM)	2	2	2	1	3	4	4	1	(CM)	(CM)	(CM)	0	(CM)	1	3	2	3	(CM)	2	5
25	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	2	1	1	0	1	0	0	0	0	1	0	2	2	3	2	2	1	3
26	2	2	2	4	2	4	4	3	2	4	4	4	4	4	4	3	1	0	2	3	3	2	3	1	3	4
27	1	2	1	1	3	1	3	4	4	1	3	4	4	4	4	4	4	0	1	2	3	3	3	3	4	4
28	2	1	2	3	3	0	2	3	1	3	3	4	5	4	4	4	4	3	3	2	3	4	4	1	3	5
29	0	1	1	2	2	(CM)	1	0	4	2	3	3	2	1	1	1	1	1	1	0	(CM)	(CM)	1	(CM)	2	4
30	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	0	1	2	3	2	1	(CM)	1	0	(CM)	(CM)	(CM)	(CM)	(CM)	1	3
31	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	0	1	0	0	0	1	(CM)	0	(CM)	(CM)	0	(CM)	1	2	(	2
AV	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	2	2	2	2	5
PK	4	5	4	4	4	4	5	4	4	4	5	5	5	4	4	5	4	3	4	3	3	4	4	4	4	

WIND SPEED 100
WIND DIR 5/SEC

CB-TRACT
TRAILER AA23
OCT 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK	
1	1	1	0	0	0	0	(CM)		1	1	2	2	1	3	4	3	3	3	3	0	1	1	1	2	2	4	
2	1	1	1	1	1	2	3	3	4	2	4	6	6	4	4	2	1	1	1	4	4	4	1	1	2	3	6
3	4	3	3	2	1	2	1	1	3	2	3	4	4	3	3	3	1	1	1	2	1	1	1	4	4	4	8
4	3	1	1	1	2	2	2	1	0	4	4	1	3	2	2	0	2	2	2	2	3	3	3	1	2	2	5
5	1	1	1	1	2	2	1	1	1	1	0	3	4	7	6	3	7	4	4	4	7	8	4	3	3	4	4
6	0	1	1	1	1	2	1	1	1	3	3	1	4	1	1	2	2	0	2	2	1	2	1	1	2	1	7
7	0	1	1	1	1	2	1	1	1	1	4	1	7	3	5	6	5	3	3	3	3	3	4	5	6	6	8
8	0	1	1	1	1	2	1	1	1	1	1	6	7	5	5	4	2	4	4	2	1	1	1	2	2	1	7
9	0	1	1	1	1	2	1	1	1	1	1	6	7	5	5	4	2	4	4	2	1	1	1	2	2	1	7
10	0	1	1	1	1	2	1	1	1	1	1	6	7	5	5	4	2	4	4	2	1	1	1	2	2	1	7
11	0	1	1	1	1	2	1	1	1	1	1	6	7	5	5	4	2	4	4	2	1	1	1	2	2	1	7
12	0	1	1	1	1	2	1	1	1	1	1	6	7	5	5	4	2	4	4	2	1	1	1	2	2	1	7
13	0	1	1	1	1	2	1	1	1	1	1	6	7	5	5	4	2	4	4	2	1	1	1	2	2	1	7
14	0	1	1	1	1	2	1	1	1	1	1	6	7	5	5	4	2	4	4	2	1	1	1	2	2	1	7
15	0	1	1	1	1	2	1	1	1	1	1	6	7	5	5	4	2	4	4	2	1	1	1	2	2	1	7
16	0	1	1	1	1	2	1	1	1	1	1	6	7	5	5	4	2	4	4	2	1	1	1	2	2	1	7
17	0	1	1	1	1	2	1	1	1	1	1	6	7	5	5	4	2	4	4	2	1	1	1	2	2	1	7
18	0	1	1	1	1	2	1	1	1	1	1	6	7	5	5	4	2	4	4	2	1	1	1	2	2	1	7
19	0	1	1	1	1	2	1	1	1	1	1	6	7	5	5	4	2	4	4	2	1	1	1	2	2	1	7
20	0	1	1	1	1	2	1	1	1	1	1	6	7	5	5	4	2	4	4	2	1	1	1	2	2	1	7
21	0	1	1	1	1	2	1	1	1	1	1	6	7	5	5	4	2	4	4	2	1	1	1	2	2	1	7
22	0	1	1	1	1	2	1	1	1	1	1	6	7	5	5	4	2	4	4	2	1	1	1	2	2	1	7
23	0	1	1	1	1	2	1	1	1	1	1	6	7	5	5	4	2	4	4	2	1	1	1	2	2	1	7
24	0	1	1	1	1	2	1	1	1	1	1	6	7	5	5	4	2	4	4	2	1	1	1	2	2	1	7
25	0	1	1	1	1	2	1	1	1	1	1	6	7	5	5	4	2	4	4	2	1	1	1	2	2	1	7
26	0	1	1	1	1	2	1	1	1	1	1	6	7	5	5	4	2	4	4	2	1	1	1	2	2	1	7
27	0	1	1	1	1	2	1	1	1	1	1	6	7	5	5	4	2	4	4	2	1	1	1	2	2	1	7
28	0	1	1	1	1	2	1	1	1	1	1	6	7	5	5	4	2	4	4	2	1	1	1	2	2	1	7
29	0	1	1	1	1	2	1	1	1	1	1	6	7	5	5	4	2	4	4	2	1	1	1	2	2	1	7
30	0	1	1	1	1	2	1	1	1	1	1	6	7	5	5	4	2	4	4	2	1	1	1	2	2	1	7
31	0	1	1	1	1	2	1	1	1	1	1	6	7	5	5	4	2	4	4	2	1	1	1	2	2	1	7

WIND SPEED ~ 30"
METERS/SEC

CB-TRACT
TRAILER AA23
OCT 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	1	1	0	0	0	0	0	0	1	1	2	2	2	4	5	4	3	4	5	0	0	0	1	3	2	5
2	2	3	2	1	1	3	4	4	2	3	6	8	10	5	6	4	2	3	5	5	5	6	2	2	4	8
3	3	1	3	1	1	3	2	1	2	0	0	8	10	9	10	10	9	8	7	1	1	2	4	5	5	10
4	4	7	4	3	3	3	1	1	1	3	3	2	5	4	4	0	3	4	3	3	4	2	1	1	3	7
5	5	4	0	2	3	4	3	(CM)	0	5	5	5	4	2	3	4	2	3	3	5	4	2	1	1	3	5
6	6	4	1	5	7	5	5	2	5	6	7	4	4	9	8	10	4	4	6	7	10	1	4	4	7	11
7	7	1	4	5	7	5	5	5	(PF)	6	7	8	9	9	8	3	1	1	2	3	2	6	2	5	4	9
8	8	7	7	5	5	5	5	5	5	5	5	1	7	2	2	3	3	4	3	3	3	3	2	2	4	4
9	9	0	1	1	2	0	1	1	2	7	0	1	1	3	3	8	7	4	2	4	4	4	7	7	2	4
10	10	2	2	3	13	1	1	4	12	14	6	10	9	7	8	1	3	3	3	4	3	8	1	3	8	15
11	11	5	1	1	1	1	1	2	0	3	8	8	6	8	6	4	6	6	5	5	3	2	0	2	2	3
12	12	2	1	1	1	1	1	2	1	5	9	8	6	8	6	4	4	2	3	3	3	4	4	1	4	9
13	13	2	2	1	1	1	1	3	3	4	6	5	6	5	6	5	4	4	3	3	4	5	4	0	3	6
14	14	1	2	2	2	1	1	2	2	1	1	4	4	3	4	4	4	1	2	3	3	2	0	0	2	4
15	15	1	2	2	2	2	1	3	2	5	5	5	7	6	7	7	5	4	3	4	4	5	5	4	5	8
16	16	3	0	1	0	3	4	5	5	5	5	7	7	7	7	1	1	0	(CM)	1	1	0	2	4	1	4
17	17	4	2	1	1	0	0	0	1	1	0	1	1	2	2	2	2	2	1	1	1	0	0	(CM)	1	3
18	18	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	4	5	4	4	2	1	2	2	2	5
19	19	0	0	0	0	0	0	0	0	1	1	2	5	5	5	6	6	6	7	8	4	2	1	0	3	8
20	20	1	2	2	1	1	2	2	1	4	4	4	4	5	5	4	4	4	1	2	4	2	2	0	2	5
21	21	1	2	2	1	1	1	0	0	1	2	3	3	3	3	2	4	3	1	2	4	3	2	0	2	5
22	22	1	0	0	0	1	1	0	0	1	1	3	4	4	5	5	4	4	5	5	4	1	1	0	1	4
23	23	(CM)	0	0	1	1	(CM)	0	0	1	1	2	3	3	3	2	4	4	1	2	3	4	1	(CM)	2	5
24	24	1	1	1	1	3	2	2	0	5	8	8	6	6	0	2	3	0	0	2	4	4	4	4	3	8
25	25	2	1	1	1	0	2	1	0	4	1	1	1	1	1	2	4	6	7	8	6	3	1	1	2	8
26	26	2	2	2	1	2	2	2	5	4	5	7	9	11	6	10	7	5	3	4	4	3	2	3	4	11
27	27	4	2	2	2	2	4	4	10	12	13	13	13	10	11	8	6	13	4	6	10	7	9	9	8	13
28	28	2	2	2	2	2	7	7	7	11	13	7	6	4	4	1	5	1	2	3	3	3	2	1	5	11
29	29	5	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	3	1	(CM)	1	1	1	1	1	0	1	3
30	30	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	1	(CM)	(CM)	(CM)	1	1	0	1	0	1	1
31	31	1	1	1	1	0	1	1	1	1	0	1	1	1	0	1	(CM)	(CM)	(CM)	1	1	0	1	0	1	1
AV	AV	2	3	3	3	3	3	3	3	4	5	5	5	5	5	4	4	4	3	3	3	3	3	3	3	15

WIND SPEED @ 60M
METERS/SEC

CB-TRACT
TRAILER AA23
OCT 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	1	1	1	0	0	1	1	1	1	2	2	3	2	4	5	4	4	5	6	1	0	0	1	3	2	6
2	4	5	3	4	3	4	4	5	6	4	6	9	8	6	7	4	3	3	6	6	7	7	2	3	5	9
3	4	2	4	2	2	4	3	2	4	7	8	11	10	10	11	11	10	10	8	2	5	3	5	6	6	11
4	6	8	5	4	2	4	2	2	6	4	4	3	5	5	5	1	4	4	4	0	1	3	3	1	4	8
5	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	()
6	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	()
7	5	2	1	2	4	5	4	1	1	5	6	7	10	10	9	11	9	7	8	9	13	13	8	6	6	13
8	6	8	11	9	7	3	4	3	(PF)	6	6	2	8	2	2	3	1	1	3	4	4	3	3	2	4	11
9	1	0	2	2	1	0	1	1	2	2	(C4)	2	1	4	4	4	4	5	2	5	5	4	4	1	3	5
10	2	2	2	4	2	6	9	5	4	8	6	11	10	8	8	9	8	5	5	5	5	6	8	8	6	11
11	7	7	8	12	14	13	17	16	13	15	16	13	10	5	6	1	4	3	3	4	4	4	10	2	3	9
12	2	2	3	1	2	0	1	2	0	4	9	9	7	8	7	5	5	7	7	2	4	3	1	3	4	9
13	3	4	2	2	7	4	4	4	1	8	10	9	8	9	6	6	6	2	3	4	4	6	4	2	5	10
14	2	3	3	2	2	2	4	4	4	4	6	5	5	6	6	4	4	4	3	1	2	3	1	1	3	6
15	2	1	1	3	3	1	1	2	2	1	1	4	4	4	4	4	4	1	3	4	4	5	4	3	3	5
16	4	7	9	10	9	4	5	3	6	6	8	8	7	7	7	8	5	4	4	5	7	6	7	5	6	10
17	4	3	2	1	1	1	1	1	2	1	1	1	1	2	2	2	1	1	1	1	2	1	3	4	2	4
18	3	1	3	1	1	3	2	0	1	1	2	1	2	2	2	2	2	3	3	1	1	1	(CM)	1	2	3
19	1	0	1	1	0	1	1	1	2	2	1	2	3	3	3	3	4	7	6	1	3	1	2	2	7	
20	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	()
21	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	()
22	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	()
23	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	()
24	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	()
25	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	()
26	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	()
27	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	()
28	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	()
29	2	2	3	3	3	6	4	3	6	13	10	8	7	5	4	1	6	2	1	3	3	4	2	2	4	13
30	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	3	1	1	2	2	1	1	1	1	()	3
31	0	1	1	0	1	1	1	1	1	1	0	1	1	1	1	1	0	(CM)	0	1	1	(CM)	2	1	1	2
AV	3	3	3	3	3	3	4	3	3	5	6	6	6	5	5	4	4	4	4	3	4	4	3	3	4	17
PK	7	8	11	12	14	13	17	16	13	15	16	13	11	10	11	11	10	9	8	9	13	13	8	8		

WIND SPEED @10M

C-B TRACT
MRI AD42
October 1981

Refer to pages II-710 through II-746

Mechanical Recordering Instrument was removed and replaced by an R.A. solar powered data acquisition system installed July 25, 1981. Monitoring of data and maintenance of the instrumentation was contracted to WestAq Corp. upon purchase of the equipment.

WIND SPEED @10M

C-B TRACT
MRI AD56
October 1981

DATA NOT AVAILABLE AT REPORT TIME

WIND DIRECTION M10M
DEGREES

CB-TRACT
TRAILER AB20
OCT 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	PREV
1	(CM)	107	101	101	117	120	136	141	134	288	282	282	282	205	287	232	273	255	99	101	98	103	127	132	146
2	99	128	(CM)	122	121	110	100	99	97	86	122	131	125	150	171	259	311	62	103	97	88	95	82	117	110
3	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	75	83	82	151	183	184	190	192	182	161	53	157	221	129	117	121	141
4	129	135	109	130	120	81	95	71	90	95	305	122	164	135	290	121	110	95	331	199	297	313	302	111	110
5	98	107	105	100	114	114	127	(CM)	122	96	155	328	306	324	292	311	128	127	111	105	126	127	116	114	110
6	121	120	123	117	120	130	134	133	131	126	126	242	179	167	200	159	177	216	90	97	75	128	119	132	137
7	134	120	112	130	127	101	115	122	130	167	147	181	178	176	175	165	152	138	118	97	110	115	129	121	137
8	114	233	117	127	113	256	343	301	263	289	301	71	140	82	95	333	0	348	279	236	281	(CM)	(CM)	(CM)	308
9	(CM)	25	(CM)	55	112	121	(CM)	(CM)	(CM)	(CM)	335	141	7	261	286	292	297	19	92	127	104	108	119	117	75
10	135	136	132	109	127	102	104	121	117	163	176	194	185	185	184	168	193	217	111	108	112	112	90	75	139
11	69	52	74	136	144	141	140	143	141	175	166	158	165	216	294	45	117	115	123	129	130	129	(CM)	123	131
12	99	100	131	127	7	(CM)	(CM)	(CM)	112	274	176	229	260	171	190	152	152	136	122	129	292	289	127	96	148
13	117	44	(CM)	124	114	351	(CM)	299	294	164	179	232	197	220	193	219	207	(CM)	284	300	279	194	112	(CM)	205
14	(CM)	(CM)	242	(CM)	225	258	125	109	155	172	180	174	272	219	224	285	359	331	(CM)	(CM)	(CM)	(CM)	128	117	202
15	(CM)	(CM)	(CM)	(CM)	113	131	(CM)	150	(CM)	275	289	280	272	265	267	274	243	122	(CM)	273	265	106	90	80	237
16	114	121	122	127	125	104	103	105	178	169	168	169	202	178	238	234	247	219	233	(CM)	232	(CM)	(CM)	(CM)	174
17	(CM)	(CM)	67	(CM)	(CM)	(CM)	114	117	135	135	112	121	94	208	29	324	277	330	(CM)	121	139	(CM)	(CM)	(CM)	110
18	9	77	74	105	109	(CM)	107	124	137	251	266	265	264	270	271	276	282	30	108	(CM)	107	108	97	123	118
19	106	104	94	106	115	132	111	(CM)	113	292	290	268	(MT)	260	283	247	215	225	75	85	86	80	90	122	120
20	105	117	121	123	115	122	101	114	122	97	177	172	172	169	171	200	185	143	69	92	94	87	97	101	127
21	103	97	91	95	90	96	87	90	122	278	273	268	267	289	275	276	268	48	99	94	94	95	89	98	92
22	94	111	94	90	94	92	90	108	125	298	272	278	290	359	330	316	2	62	102	105	87	82	97	98	75
23	94	94	97	101	125	125	107	124	129	133	(CM)	(CM)	280	270	281	289	291	(CM)	(CM)	92	90	86	95	117	110
24	130	130	125	124	119	(CM)	122	124	127	125	269	270	283	195	(CM)	(CM)	(CM)	6	(CM)	311	267	278	268	(CM)	174
25	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	120	101	92	107	332	326	109	94	145	96	95	108	98	107	103	97	98
26	113	101	114	124	119	125	123	120	121	164	168	140	154	157	166	189	180	95	99	122	121	122	124	117	132
27	115	117	94	95	104	105	123	109	111	134	172	163	165	183	191	192	188	79	86	91	93	101	101	86	123
28	92	91	93	94	85	80	104	106	132	155	165	153	152	133	140	131	126	101	88	101	104	117	110	88	113
29	95	114	121	121	119	(CM)	313	175	274	194	216	249	266	71	315	306	294	55	100	81	(CM)	(CM)	71	(CM)	126
30	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	270	264	274	261	287	316	(CM)	30	68	(CM)	(CM)	(CM)	(CM)	(CM)	()
31	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	102	107	120	302	127	111	(CM)	63	(CM)	(CM)	83	(CM)	101	98	()
44	104	104	106	112	113	113	109	117	131	157	197	195	216	209	232	239	216	68	95	111	110	109	106	109	130

DECEMBER 1961

CB-TRACT
TRAILER AA23
OCT 1981
OCCIDENTAL OIL SHALE INC.

DAY	HOUR (LOCAL STANDARD TIME)																								PREV
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	218	191	164	94	64	64	64	64	17	333	330	343	293	224	232	256	241	253	219	196	212	208	161	177	225
2	189	199	244	234	144	164	144	144	194	135	180	147	183	195	220	238	229	197	167	174	165	163	137	178	192
3	129	185	217	244	144	214	180	180	215	225	213	218	224	222	209	208	207	204	199	204	209	175	190	180	200
4	142	195	173	144	144	204	144	144	140	203	312	180	201	190	281	34	115	74	335	219	275	316	307	145	203
5	164	123	37	144	144	144	144	144	144	214	219	229	288	307	303	315	103	126	155	181	184	213	210	174	183
6	127	114	134	144	144	144	144	144	60	44	77	259	236	222	225	217	212	214	213	217	202	169	165	169	166
7	150	144	144	170	170	171	147	147	184	145	202	247	214	212	199	199	194	184	199	191	186	186	173	140	185
8	172	231	142	201	174	201	147	201	244	244	247	139	224	216	118	1	294	262	323	281	265	264	262	281	254
9	229	230	233	241	144	144	144	144	315	304	240	147	270	232	250	296	234	214	165	181	193	178	173	116	228
10	167	94	35	144	144	144	144	144	147	145	142	146	187	194	207	203	210	212	197	176	148	158	188	191	176
11	149	203	201	144	144	144	144	144	147	145	142	146	194	224	301	103	98	125	115	159	178	218	285	145	184
12	144	112	41	171	17	61	144	144	147	214	201	217	217	208	208	201	173	178	168	225	311	337	149	118	173
13	161	140	206	244	144	144	144	144	145	205	200	218	212	206	196	224	230	239	274	247	231	231	154	289	208
14	0	306	304	201	144	144	144	144	147	201	225	227	212	227	246	259	330	330	340	254	249	242	(CM)	215	249
15	241	233	223	244	144	144	144	144	147	201	225	227	212	227	246	259	330	330	340	254	249	242	(CM)	215	249
16	132	177	145	144	144	144	144	144	147	201	225	227	212	227	246	259	330	330	340	254	249	242	(CM)	215	249
17	211	226	273	171	144	144	144	144	147	201	225	227	212	227	246	259	330	330	340	254	249	242	(CM)	215	249
18	246	235	243	244	220	221	214	214	207	214	207	205	204	218	226	226	230	224	220	228	221	217	212	213	203
19	222	224	243	144	220	221	214	214	207	214	207	205	204	218	226	226	230	224	220	228	221	217	212	213	203
20	100	117	116	114	102	104	104	114	114	107	114	114	114	207	214	219	220	206	205	214	202	101	135	104	174
21	143	136	213	231	241	219	147	219	147	343	354	426	333	307	323	294	298	286	319	245	258	249	223	(CM)	281
22	0	216	216	241	101	144	217	74	319	309	333	331	343	13	15	346	0	352	204	205	203	217	201	(CM)	290
23	236	231	114	147	147	226	207	207	144	144	133	263	247	317	283	297	311	211	217	219	222	213	185	155	231
24	133	144	144	214	214	210	144	144	144	247	262	245	274	214	353	309	246	305	302	3	321	305	305	305	258
25	304	304	304	304	304	306	307	304	104	141	133	203	217	39	217	226	224	196	201	199	196	166	92	104	223
26	145	171	116	111	144	144	114	114	144	205	207	203	197	209	213	222	209	206	152	141	126	156	145	157	163
27	143	134	145	144	174	134	144	144	144	145	213	219	217	217	211	210	196	199	169	111	187	193	194	192	182
28	110	171	147	144	144	144	144	144	204	201	203	198	197	195	195	183	187	194	162	156	168	183	191	184	176
29	141	211	204	144	144	213	203	242	242	242	218	234	242	215	234	356	284	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	214
30	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	332	320	317	317	317	317	317	317	()
31	315	315	315	317	317	317	317	317	332	73	14	103	62	20	(CM)	148	(CM)	(CM)	211	205	197	228	15	180	322
	175	140	144	144	171	142	144	144	144	202	244	221	235	234	245	260	237	221	209	207	215	206	187	173	208

WIND DIRECTION & SPEED
DEGREES

CB-TRACT
TRAILER AA23
OCT 1981
OCCIDENTAL OIL SHALE INC.

MOON (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	PREV
1	232	247	189	71	323	(CM)	90	95	20	331	320	338	284	217	228	251	235	249	222	229	180	135	140	153	228
2	196	202	234	231	194	184	174	149	191	124	178	189	174	188	216	232	225	200	163	162	153	151	136	176	187
3	122	202	212	227	193	218	191	142	213	219	208	213	217	215	204	201	200	197	194	196	202	167	182	173	197
4	155	140	145	142	170	202	144	130	213	201	305	183	192	182	277	25	111	68	332	189	266	313	305	138	197
5	162	115	54	141	137	155	211	(CM)	161	205	213	223	284	307	297	310	97	111	128	145	157	181	180	160	170
6	111	111	54	144	114	105	119	131	62	42	65	251	230	215	217	212	203	209	210	213	204	152	160	172	159
7	174	145	176	151	153	156	166	186	176	188	196	203	209	205	191	192	188	179	192	184	177	176	163	135	180
8	145	224	145	145	175	255	334	245	(PF)	243	280	152	220	211	120	354	302	258	321	279	268	267	271	292	253
9	270	266	260	274	254	106	240	261	310	305	297	12	256	225	245	292	226	211	185	181	198	194	183	125	242
10	109	105	145	174	125	176	177	154	158	167	184	189	179	191	200	197	204	206	191	171	145	155	180	185	170
11	144	195	144	144	175	160	173	176	180	183	185	188	187	217	298	98	90	119	112	169	196	215	281	130	179
12	123	135	130	207	352	54	34	107	347	207	194	209	210	202	201	192	164	168	157	203	313	334	132	100	164
13	137	133	207	222	175	164	94	97	175	198	193	212	206	200	188	217	225	231	268	248	235	226	148	281	198
14	351	303	310	254	234	264	191	174	171	194	221	219	206	221	240	253	327	331	340	309	282	259	239	229	253
15	263	270	246	255	235	167	234	114	84	71	316	267	279	283	282	277	239	99	113	244	231	110	148	151	231
16	122	171	174	175	150	150	167	127	191	200	200	197	197	211	220	219	223	218	217	222	215	214	207	210	196
17	266	237	272	(CM)	154	216	241	70	70	119	150	32	51	47	41	28	21	5	(CM)	264	294	319	341	338	358
18	240	247	244	261	265	227	222	40	71	21	335	352	335	316	306	288	317	342	47	232	276	166	351	(CM)	301
19	146	234	430	41	42	171	247	64	82	28	330	5	353	335	325	340	230	212	199	107	141	98	112	131	65
20	132	121	135	153	152	165	164	133	194	214	231	206	205	200	206	212	212	202	199	211	202	111	182	161	183
21	170	115	(CM)	(CM)	234	244	82	74	61	345	348	320	328	301	317	288	292	289	356	266	270	261	236	180	299
22	0	144	(CM)	234	31	(CM)	(CM)	64	302	304	336	329	336	11	9	339	358	10	137	158	147	211	180	15	348
23	(CM)	245	(CM)	34	42	197	202	201	107	73	356	217	245	304	277	291	306	208	216	223	222	211	207	(CM)	232
24	103	151	141	205	214	217	204	233	215	236	277	251	269	207	350	314	239	276	341	353	307	297	302	330	260
25	247	245	244	322	17	73	134	155	110	127	121	142	214	28	210	220	215	192	194	191	191	178	127	128	174
26	144	174	143	144	144	147	140	147	141	196	200	196	169	201	205	214	201	198	139	126	116	175	150	167	168
27	176	151	141	44	147	125	148	192	174	188	207	213	212	211	204	202	189	191	169	160	187	189	189	188	179
28	122	147	154	147	74	45	142	191	144	194	194	190	190	144	189	176	160	167	153	151	180	177	167	176	171
29	185	205	145	114	155	205	200	191	220	194	212	225	237	210	226	346	277	193	263	262	242	226	120	120	209
30	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	328	335	(CM)	41	41	40	40	41	42	()
31	40	41	41	41	41	40	42	42	74	71	24	93	56	14	96	128	(CM)	(CM)	(CM)	157	153	292	341	6	52
60	145	145	145	174	151	177	174	141	156	190	235	222	229	227	237	255	230	207	186	201	208	197	180	157	203

WIND DIRECTION * 60M
DEGREES

CB-TRACT
TRAILER AA23
OCT 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	PREV
1	253	267	237	144	264	76	123	135	30	339	336	347	295	228	235	262	245	256	239	270	243	99	147	163	248
2	214	224	234	234	202	202	204	201	205	144	148	197	184	194	224	239	236	217	184	174	164	166	162	191	200
3	144	214	222	223	214	224	214	181	223	227	216	222	225	221	213	210	208	207	203	205	211	179	191	184	209
4	195	201	174	205	144	211	200	164	225	209	306	204	200	192	284	35	126	86	343	166	270	316	308	174	209
5	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	
6	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	
7	143	145	237	173	174	206	215	240	213	214	222	222	217	213	200	201	197	188	199	194	189	188	175	155	198
8	179	230	200	204	191	302	304	302	(PF)	251	248	189	231	223	152	357	314	267	334	295	292	289	297	308	266
9	302	310	244	252	240	270	272	277	316	310	(CM)	21	253	232	253	298	232	226	205	200	218	215	209	172	260
10	148	145	120	140	150	104	164	164	170	196	194	198	188	199	209	205	212	213	200	183	164	171	189	194	183
11	204	204	202	192	188	190	184	184	184	192	194	197	197	223	304	146	109	147	143	197	216	225	280	145	192
12	133	157	125	229	337	81	17	124	329	213	201	217	218	211	209	201	176	179	168	199	319	344	158	105	184
13	137	142	145	210	184	169	117	115	173	207	201	220	215	208	196	224	232	239	270	257	242	237	168	271	204
14	342	312	324	244	254	254	206	189	182	201	226	226	213	224	245	254	335	343	352	347	330	289	283	276	271
15	244	305	292	259	256	194	208	124	102	83	334	298	290	294	292	284	251	109	122	250	247	124	170	163	256
16	143	183	144	144	144	140	145	142	144	205	208	205	204	219	228	227	230	227	226	230	225	225	220	221	206
17	219	239	270	244	215	270	240	41	71	124	147	40	63	54	49	34	28	6	357	328	329	325	352	352	351
18	334	324	275	313	270	246	253	217	90	22	344	358	344	326	315	298	329	353	55	251	290	202	(CM)	105	314
19	114	120	244	227	145	134	247	102	107	57	337	19	357	341	334	348	242	225	214	195	189	168	130	176	171
20	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	
21	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	
22	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	
23	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	
24	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	
25	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	
26	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	
27	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	
28	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	
29	201	175	134	202	204	202	204	141	232	200	214	234	246	214	232	346	286	208	225	173	228	242	129	115	211
30	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	29	29	28	28	27	26	26	26	25	()
31	24	24	23	22	21	22	23	22	24	26	28	30	34	35	35	35	35	34	34	33	32	30	29	28	24
40	192	211	233	224	214	211	224	157	174	202	240	233	232	227	244	277	245	220	217	223	246	221	190	169	225

WIND DIRECTION @10M

C-B TRACT
MRI AD42
October 1981

Refer to pages II-710 through II-746

Mechanical Recordering Instrument was removed and replaced by an R.A. solar powered data acquisition system installed July 25, 1981. Monitoring of data and maintenance of the instrumentation was contracted to WestAq Corp. upon purchase of the equipment.

WIND DIRECTION @10M

C-B TRACT
MRI AD56
October 1981

DATA NOT AVAILABLE AT REPORT TIME

WIND DIRECTION 400
VELOCITY AVERAGE VELOCITY (DUE N 45E)
10 FEET LEVEL

CB-TRACT
TRAILER AB20
OCT 1981
OCCIDENTAL OIL SHALE, INC.

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	VECTOR DIR VEL	
1	000	107	101	101	117	120	137	141	134	285	262	252	282	205	267	232	273	255	99	101	98	103	127	132	191	0.4
2	09	126	122	121	110	100	99	104	97	66	122	131	125	150	171	259	311	62	103	97	88	95	82	117	115	1.4
3	000	000	000	000	000	000	000	75	94	45	42	151	163	144	190	192	182	161	53	157	221	129	117	121	163	1.5
4	124	125	109	130	120	61	75	71	90	95	305	122	164	135	290	121	110	95	331	199	297	313	302	111	108	0.2
5	72	107	105	100	114	114	127	000	127	95	155	326	306	324	292	311	128	127	111	105	126	127	116	114	108	0.8
6	121	120	129	117	120	130	134	135	131	128	126	242	179	167	200	159	177	216	90	97	75	128	119	132	136	1.3
7	134	120	112	130	127	101	115	122	130	167	147	151	178	176	175	165	152	138	118	97	110	115	129	121	143	2.7
8	114	235	117	127	115	256	344	501	263	209	301	71	140	82	95	333	0	348	279	236	281	000	000	000	37	0.1
9	000	24	000	54	112	121	000	000	000	000	335	141	7	261	286	292	297	19	92	127	104	108	119	117	98	0.4
10	144	134	132	134	127	107	124	121	117	155	176	144	185	145	188	164	193	217	111	108	112	112	90	75	143	1.9
11	44	50	74	134	144	141	140	145	141	175	156	158	165	216	244	45	117	115	123	129	130	129	000	123	140	2.2
12	00	130	131	127	7	000	000	112	274	000	176	229	260	171	190	152	152	136	122	129	292	269	127	96	163	1.1
13	117	00	000	124	114	351	000	274	294	168	179	252	197	220	193	219	207	000	284	300	279	194	112	000	198	1.0
14	000	000	247	000	275	257	125	104	155	172	180	174	272	219	224	285	359	331	000	000	000	000	128	117	207	0.7
15	000	000	000	000	000	113	131	000	150	275	269	280	272	265	267	274	243	122	000	273	265	106	90	80	262	0.5
16	121	121	122	127	325	134	103	105	174	169	165	169	202	176	238	234	247	214	233	000	232	000	000	000	173	1.5
17	000	000	000	000	000	000	114	117	135	135	112	121	44	205	24	324	277	330	000	121	139	000	000	000	119	0.4
18	00	00	00	00	00	000	107	124	137	251	256	256	264	270	271	276	282	30	103	000	107	108	97	123	211	0.2
19	105	104	104	104	115	130	111	000	113	297	290	288	000	260	263	247	215	225	75	85	86	80	90	122	116	0.5
20	105	117	121	124	112	122	101	112	122	27	177	172	172	169	171	200	185	143	69	92	94	87	97	101	129	1.9
21	103	97	91	91	91	91	91	91	122	275	273	273	267	249	275	276	268	48	99	94	94	95	89	98	255	0.0
22	00	111	00	00	00	00	105	125	125	297	272	273	290	359	330	316	2	62	102	105	87	82	97	98	74	0.6
23	00	00	00	00	00	00	107	124	124	134	000	000	000	270	281	269	291	000	000	92	90	86	95	117	126	0.4
24	130	130	125	124	114	000	122	124	127	125	269	270	283	195	000	000	000	6	000	311	267	278	268	000	226	0.7
25	000	000	000	000	000	000	000	000	000	120	101	107	332	326	109	94	145	96	95	108	98	107	103	97	100	1.0
26	115	101	115	124	114	125	124	120	121	164	164	140	154	157	165	189	180	95	99	122	121	122	124	117	134	2.6
27	115	117	00	00	104	107	123	109	111	134	172	163	165	143	191	192	188	79	86	91	93	101	101	88	132	2.0
28	00	00	00	00	00	30	104	105	132	159	175	153	152	133	140	131	126	101	88	101	104	117	110	86	120	2.6
29	00	112	121	121	114	000	313	175	274	194	215	249	260	71	315	306	294	55	100	81	000	000	000	000	231	0.3
30	000	000	000	000	000	000	000	000	000	000	270	264	274	261	287	316	000	30	68	000	000	000	000	000	000	000
31	000	000	000	000	000	000	000	000	000	000	102	107	120	302	127	111	000	63	000	000	83	000	101	98	000	000
00	112	114	112	115	115	120	112	114	131	156	198	203	211	199	224	224	196	114	98	107	105	109	107	110	135	
00	1.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	1.0	1.0	1.0	1.0	1.0	1.0	0.7	0.5	0.9	0.9	0.9	1.4	1.5	1.8		1.0

TOTAL NUMBER OF OBSERVATIONS = 635

NOTE: 0000 = UNKNOWN

WIND DIRECTION AND
VELOCITY AVERAGE
10 METER LEVEL

CD-TRACT
TRAILER AA23
OCT 1981
OCCIDENTAL OIL SHALE, INC.

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	VECTOR DIR VEL	
1	214	191	164	146	127	107	88	69	50	33	330	343	243	224	232	256	241	253	219	196	212	208	161	177	239	1.0
2	184	194	244	235	194	142	104	67	31	135	180	197	183	195	220	238	229	197	167	174	165	163	137	178	191	2.6
3	124	155	217	242	180	122	75	38	1	225	213	216	224	222	209	208	207	204	199	204	209	175	190	180	208	3.4
4	142	195	173	145	151	106	69	32	1	206	312	180	201	140	281	34	115	74	335	219	275	316	307	145	209	1.1
5	168	123	17	151	142	135	117	149	149	214	219	229	266	307	303	315	103	126	155	181	184	213	210	174	200	1.1
6	127	114	130	135	114	116	135	154	60	44	77	255	236	222	225	217	212	214	213	217	202	169	165	169	189	1.3
7	150	144	144	170	170	171	147	146	144	196	202	209	214	212	199	199	194	184	199	191	186	186	173	140	191	4.5
8	172	232	142	201	174	261	1	307	888	248	287	139	224	216	118	1	294	262	323	281	265	264	262	281	235	1.5
9	229	230	245	241	174	169	224	257	315	309	286	20	270	232	250	296	234	214	185	181	193	178	173	116	231	0.9
10	107	44	55	174	174	153	157	165	157	195	142	195	187	194	207	203	210	125	115	176	148	158	188	191	186	3.4
11	144	203	209	141	167	166	161	165	166	191	193	195	194	224	301	103	98	125	115	159	178	218	285	145	191	5.0
12	149	112	91	171	17	61	164	160	327	216	201	217	217	208	208	201	173	178	168	225	311	337	149	118	196	1.7
13	161	150	255	225	144	173	90	105	193	205	200	216	212	206	196	224	230	239	274	247	240	231	154	289	206	2.4
14	0	306	303	251	233	276	193	180	141	201	228	227	212	227	246	259	330	330	340	254	249	242	242	215	243	1.6
15	241	234	225	243	240	176	214	136	93	86	314	242	265	287	284	278	241	113	129	250	233	122	155	162	239	0.8
16	132	177	150	144	144	165	141	137	200	207	207	205	204	218	226	226	230	224	220	228	221	217	212	213	205	3.0
17	211	220	270	171	172	174	204	170	47	133	199	45	62	56	45	31	25	344	233	231	243	321	335	337	316	0.0
18	246	235	243	244	221	221	219	54	75	25	339	357	333	321	305	292	323	340	0	221	261	214	341	218	278	0.6
19	222	224	240	144	144	185	315	101	79	20	335	4	359	334	330	345	240	219	200	78	121	99	125	126	45	0.0
20	100	117	114	114	102	134	150	114	207	219	236	213	212	207	211	219	220	206	205	214	202	101	135	104	197	1.9
21	143	141	215	231	231	214	45	88	34	343	354	320	333	307	323	294	298	266	319	245	258	249	223	223	294	1.1
22	0	215	215	240	240	214	217	173	319	309	336	331	343	13	15	346	0	352	204	205	203	217	201	223	323	0.5
23	235	231	114	214	214	224	207	207	44	71	370	223	247	317	283	297	311	211	217	219	222	213	185	155	252	0.4
24	133	149	145	214	215	210	194	225	140	242	242	265	274	214	353	309	246	305	302	3	321	305	305	305	270	1.5
25	305	305	305	304	304	304	307	244	104	141	133	203	217	39	217	226	224	198	201	199	196	166	92	104	209	1.0
26	125	171	116	111	44	114	116	114	194	205	207	203	147	209	213	222	209	206	152	141	126	156	145	157	182	2.2
27	183	134	135	135	175	134	143	204	183	195	215	219	217	217	211	210	196	199	169	111	187	193	194	192	196	3.5
28	111	171	147	163	74	47	140	194	205	201	205	190	197	195	195	183	187	194	162	156	188	183	191	184	189	5.4
29	191	211	203	142	165	213	205	200	225	206	218	234	242	215	234	356	284	284	284	284	284	284	284	284	284	3.7
30	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	0.0
31	315	315	315	315	315	315	315	315	315	73	14	105	62	20	000	148	000	000	211	205	197	228	15	180	314	0.3
00	170	144	144	144	144	144	144	144	144	204	219	221	221	221	231	234	221	208	201	202	204	200	188	177	206	
01	1.1	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.4	2.7	2.9	3.1	2.7	2.7	1.9	1.9	1.4	1.4	1.5	1.6	1.6	1.3	1.2		1.7

TOTAL NUMBER OF OBSERVATIONS = 711

DATE: 0000 = 1981.00.01

100 DIRECTION AND
VELOCITY AVERAGE VELOCITY (DEG & MFS)
30 METER LEVEL

CD-TRACT
TRAILER AA23
OCT 1981
OCCIDENTAL OIL SHALE, INC.

DAY	HOUR (LOCAL STANDARD TIME)																								VECTOR	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DIR	VEL
1	232	247	184	71	323	888	90	95	20	331	326	358	264	217	228	251	235	249	222	229	180	135	140	153	238	1.1
2	184	202	234	231	184	184	194	194	191	128	178	189	174	188	216	232	225	200	163	162	153	151	136	176	185	3.7
3	122	202	212	227	193	214	191	142	213	219	208	213	217	215	204	201	200	197	194	196	202	167	182	173	202	4.7
4	185	140	150	142	170	202	192	130	213	201	305	153	192	182	277	25	111	68	332	189	266	313	305	138	200	1.6
5	182	115	54	141	137	155	211	488	161	205	213	223	284	307	297	310	97	111	128	145	157	181	180	160	183	1.6
6	111	111	44	144	114	106	115	131	62	42	46	251	230	215	217	212	203	209	210	213	204	152	160	172	193	1.8
7	174	143	175	151	163	156	167	166	176	158	196	203	209	205	191	192	188	179	192	184	177	176	163	135	183	6.5
8	165	224	145	146	176	244	354	295	888	243	240	152	220	211	120	354	302	258	321	279	268	267	271	292	231	2.2
9	270	256	260	274	262	106	240	261	310	305	297	12	246	225	245	292	226	211	165	181	198	194	183	125	228	1.3
10	104	105	86	174	125	176	177	154	155	187	184	184	179	191	200	197	204	206	191	171	145	155	180	165	178	4.9
11	194	144	144	193	175	180	173	178	150	183	185	183	187	217	298	98	90	119	112	169	196	215	281	130	184	6.7
12	123	135	100	207	354	54	34	107	347	207	194	204	210	202	201	192	164	168	157	203	313	334	132	100	185	2.3
13	137	143	207	222	176	164	34	97	175	196	193	212	206	200	186	217	225	231	268	248	235	226	148	281	199	3.4
14	351	303	310	254	234	204	191	174	171	193	221	219	206	221	240	253	327	331	340	309	282	259	239	229	241	1.9
15	263	270	235	266	234	157	234	118	84	71	316	287	279	283	282	277	239	99	113	244	231	110	148	151	242	0.9
16	122	171	175	176	183	180	185	127	191	200	200	197	197	211	220	219	223	218	217	222	215	214	207	210	198	5.1
17	204	227	272	266	154	215	241	70	70	119	140	32	51	47	41	28	21	5	888	264	294	319	341	338	350	0.3
18	243	257	294	270	226	227	227	227	71	21	335	352	335	316	306	288	317	342	47	232	276	166	351	***	295	0.8
19	150	234	330	41	52	171	297	65	82	26	330	5	353	335	325	340	230	212	199	107	141	98	112	131	218	0.1
20	132	121	176	153	153	144	154	134	144	214	231	206	205	200	206	212	212	202	199	211	202	111	182	161	198	3.1
21	170	115	888	888	244	244	74	74	51	346	346	320	328	301	317	288	292	284	356	266	270	261	236	180	297	1.7
22	0	144	888	244	31	888	888	64	402	304	336	324	336	11	9	339	358	10	137	158	147	211	180	15	352	0.8
23	888	276	488	44	62	1-7	202	201	107	73	350	217	245	309	277	291	306	208	215	223	222	211	207	***	246	1.5
24	103	161	141	205	215	217	204	234	218	236	277	261	269	207	350	314	239	276	341	353	307	297	302	330	269	2.0
25	247	244	244	344	344	77	134	155	110	127	121	142	214	28	210	220	215	192	194	191	191	178	127	128	189	1.6
26	144	174	143	134	140	147	140	145	191	198	200	198	189	201	205	214	201	198	139	126	116	175	150	167	179	3.2
27	175	151	141	140	167	124	144	145	174	194	207	213	212	211	204	202	189	191	169	160	187	189	189	188	190	5.0
28	122	147	150	127	74	96	144	191	144	174	199	140	140	144	189	176	180	187	153	151	180	177	187	176	182	7.5
29	145	207	145	114	155	207	200	191	200	194	212	226	237	210	226	346	277	193	263	262	242	226	120	120	209	4.1
30	888	888	888	888	888	888	888	888	888	888	888	888	888	888	888	888	888	888	41	41	40	40	41	42	***	***
31	40	41	41	41	41	45	44	42	74	71	24	53	56	19	56	124	***	***	***	157	153	292	341	8	55	0.6
32	144	146	142	141	144	161	174	170	183	194	211	214	214	214	224	226	215	199	192	195	196	195	182	167	198	
33	1.6	1.4	1.7	1.7	2.2	2.1	2.2	2.2	2.3	3.5	3.0	3.5	4.1	3.6	3.4	2.6	2.6	2.6	2.2	2.1	2.3	2.2	1.8	1.6		2.4

TOTAL NUMBER OF OBSERVATIONS = 711

NOTE: 8888 = MISSING DATA

WIND DIRECTION 440
VELOCITY 440
60 METERS LEVEL

CD-TRACT
TRAILER AA23
OCT 1981
OCCIDENTAL OIL SHALE, INC.

DAY	HOUR (LOCAL STANDARD TIME)																VECTOR									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DIR	VEL
1	263	267	237	144	254	76	123	135	30	334	336	347	295	228	235	262	245	256	239	270	243	99	147	163	251	1.3
2	214	224	234	234	202	202	204	201	205	145	148	197	184	194	224	239	236	217	184	174	164	166	162	191	198	4.6
3	148	216	222	223	214	228	214	181	223	227	216	222	225	221	213	210	208	207	203	205	211	179	191	184	211	5.7
4	195	201	174	205	144	211	205	185	225	209	506	204	200	192	284	35	126	86	343	166	270	316	308	174	211	2.1
5	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
6	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
7	144	145	237	174	154	200	215	240	213	214	222	222	217	213	200	201	197	188	199	194	189	188	175	155	197	6.2
8	174	230	200	204	191	302	304	302	000	251	458	189	231	223	152	357	314	267	339	295	292	289	297	308	244	2.7
9	362	314	244	244	244	270	272	277	315	310	000	21	253	232	253	294	232	226	205	200	218	215	209	172	243	1.9
10	144	145	123	140	144	144	144	144	170	196	194	198	188	199	204	205	212	213	200	183	164	171	189	194	190	5.8
11	204	204	204	144	144	144	144	144	155	192	194	197	197	223	304	146	109	147	143	197	216	225	280	145	195	7.8
12	133	157	126	244	237	21	17	168	329	215	201	217	216	211	209	209	176	179	168	199	319	344	158	105	196	2.7
13	137	142	145	210	144	144	117	114	173	207	201	220	215	204	198	224	232	239	270	257	242	237	168	271	206	4.1
14	342	312	304	244	244	244	244	244	182	201	226	226	213	224	245	259	335	343	352	347	330	289	283	276	255	2.1
15	244	305	242	244	244	144	244	244	124	45	343	295	290	294	292	289	251	109	122	250	247	124	170	163	254	1.1
16	143	143	144	144	144	140	144	142	144	207	207	205	204	219	228	227	230	227	226	230	225	225	220	221	207	5.9
17	214	234	244	244	244	244	244	244	11	124	147	40	63	54	44	34	28	6	357	328	329	325	352	352	343	0.6
18	334	324	244	313	270	244	244	244	90	22	344	346	344	326	315	296	329	353	55	251	290	202	105	105	314	1.1
19	114	120	244	244	144	144	244	244	107	57	347	19	357	341	334	348	242	225	214	195	189	168	130	176	231	0.5
20	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
21	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
22	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
23	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
24	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
25	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
26	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
27	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
28	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
29	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
31	24	24	23	24	21	22	24	22	24	25	24	30	34	35	35	35	35	34	34	33	32	30	29	28	28	1.0
32	191	267	204	210	147	207	200	173	191	206	216	215	215	214	234	234	217	212	207	213	215	211	193	178	210	
33	144	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	2.7
34	144	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	2.7

TOTAL NUMBER OF OBSERVATIONS = 439

NOTE: 0000 = 1500000

SIGMA HORIZ. WIND DIR. 10M
DEGREES

CB-TRACT
TRAILER AB20
OCT 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	(CM)	7	10	11	9	15	9	6	5	11	9	9	10	18	22	20	15	13	14	6	8	10	10	11	11	22
2	11	10	11	9	5	6	4	5	8	10	11	10	13	14	15	6	0	6	7	7	11	14	16	16	9	16
3	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	10	13	13	9	22	21	21	23	23	24	18	25	10	13	20	8	7	16	25
4	4	15	6	4	7	4	1	4	1	1	20	11	16	6	11	8	7	11	12	4	3	6	3	13	7	20
5	9	4	0	3	6	5	2	(CM)	3	4	13	12	10	5	7	3	7	1	4	7	4	4	6	4	5	13
6	3	2	4	4	1	1	4	5	4	0	7	19	30	14	19	22	7	6	5	4	0	5	3	4	7	30
7	3	5	5	4	5	6	6	7	10	19	22	29	20	21	20	23	16	13	11	9	14	19	17	6	13	29
8	8	21	16	16	6	17	15	15	20	24	8	10	13	11	12	11	0	6	6	5	1	(CM)	(CM)	(CM)	11	24
9	(CM)	1	(CM)	2	2	1	(CM)	(CM)	(CM)	(CM)	18	20	23	24	17	14	8	11	12	10	13	13	8	10	12	24
10	9	5	5	2	3	1	1	4	2	16	17	24	24	20	20	20	20	7	6	6	7	7	11	31	11	31
11	30	33	30	24	15	15	16	18	22	26	21	21	16	15	15	8	10	11	10	8	5	21	(CM)	5	17	33
12	18	4	3	6	19	(CM)	(CM)	3	14	(CM)	21	19	20	20	19	17	14	6	4	8	17	8	14	7	13	21
13	6	4	(CM)	8	9	8	6	12	18	19	20	21	23	23	23	23	10	(CM)	9	10	9	17	10	(CM)	13	23
14	(CM)	(CM)	9	(CM)	13	2	6	5	10	15	20	20	20	20	22	14	5	12	(CM)	(CM)	(CM)	3	1	13	22	22
15	(CM)	(CM)	(CM)	(CM)	1	2	(CM)	5	(CM)	5	11	9	9	8	7	15	4	2	(CM)	14	7	10	13	7	8	15
16	8	5	5	6	12	10	5	3	18	17	23	19	18	17	19	21	15	12	5	(CM)	2	(CM)	(CM)	(CM)	12	23
17	(CM)	1	(CM)	(CM)	(CM)	(CM)	1	4	5	2	11	14	12	17	12	3	0	3	(CM)	4	6	(CM)	(CM)	6	17	18
18	10	6	2	4	4	(CM)	5	6	5	6	12	18	14	13	12	11	6	8	4	(CM)	3	8	5	7	8	18
19	8	6	5	8	9	7	5	(CM)	3	7	7	5	(MT)	42	35	41	26	24	13	8	11	11	13	14	14	42
20	22	14	12	9	12	10	15	10	7	21	33	24	32	25	19	20	19	28	18	20	14	14	11	12	18	33
21	12	11	13	10	7	5	6	10	15	14	22	10	28	18	17	15	10	16	28	10	18	21	6	10	14	28
22	11	12	11	8	10	9	7	9	7	29	34	22	35	36	42	33	25	10	8	9	8	9	9	12	17	42
23	11	10	10	10	9	9	13	11	6	11	(CM)	(CM)	47	45	18	10	13	(CM)	(CM)	6	7	5	8	10	13	47
24	8	14	8	10	12	(CM)	7	8	9	17	12	14	15	15	(CM)	(CM)	(CM)	9	(CM)	29	10	9	7	(CM)	12	29
25	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	9	15	19	30	41	48	35	33	17	9	13	13	10	9	12	16	21	48
26	14	14	11	8	12	11	12	10	13	21	18	16	16	17	18	16	17	11	7	8	13	12	9	13	13	21
27	17	13	15	17	14	13	12	8	10	22	20	19	22	27	26	21	27	20	19	7	11	11	11	8	16	27
28	10	11	9	7	11	21	17	13	30	32	31	27	21	19	23	16	18	21	15	18	13	9	13	13	17	32
29	11	23	30	10	8	(CM)	21	30	17	27	26	19	15	19	30	24	13	13	15	15	(CM)	(CM)	9	(CM)	19	30
30	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	13	10	8	8	16	20	(CM)	13	17	(CM)	(CM)	(CM)	(CM)	(CM)	()	20
31	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	6	4	8	25	19	8	(CM)	15	(CM)	(CM)	9	(CM)	1	3	()	25
AV	11	11	10	8	9	8	8	9	11	15	17	17	20	20	20	17	13	12	11	10	9	11	9	10	13	48
PK	30	33	30	24	19	21	21	30	30	32	34	30	47	48	42	41	27	28	28	29	18	21	17	31		

CB-TRACT
TRAILER AA23
OCT 1981
OCCIDENTAL OIL SHALE INC.

SIGMA HORIZONTAL WIND DIR. IN 10M
DEGREES

DAY	HOUR (LOCAL STANDARD TIME)																								AVE PEAK
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	7	14	10	6	11	21	(CM)	17	22	25	21	27	23	17	16	21	7	5	21	5	11	11	11	8	15
2	18	12	12	10	10	11	12	10	8	8	12	9	9	12	10	8	7	8	6	6	6	7	26	16	11
3	11	16	14	15	11	11	13	10	25	11	9	10	10	12	11	10	10	9	11	34	17	13	12	9	13
4	10	9	7	11	31	11	17	13	9	11	13	23	9	12	10	13	7	7	11	11	11	13	11	14	12
5	7	6	10	4	7	7	12	16	15	11	11	14	12	12	11	16	9	6	4	5	6	6	8	11	10
6	20	6	7	15	4	4	14	10	10	18	23	14	16	29	20	17	13	7	6	5	6	18	6	11	13
7	17	14	6	4	4	5	11	12	10	11	13	13	14	13	13	11	12	13	10	8	6	6	7	9	10
8	11	17	4	4	5	13	11	21	(PF)	12	11	15	10	11	8	12	13	11	8	6	4	4	5	5	10
9	6	6	4	5	10	4	4	10	13	17	31	29	29	16	17	13	11	6	6	6	19	18	14	9	13
10	10	8	3	23	21	10	5	8	11	11	12	12	10	14	12	11	11	13	12	12	11	14	13	13	12
11	22	15	12	4	4	9	6	8	4	9	10	10	10	13	11	13	10	12	6	5	18	10	13	10	11
12	11	16	7	16	12	27	25	4	23	31	11	12	18	14	12	13	8	8	8	15	12	12	24	12	15
13	11	11	15	14	5	5	5	11	25	12	13	13	15	13	13	15	11	9	9	9	7	8	9	13	25
14	13	13	12	7	4	13	7	14	12	16	13	11	14	12	14	13	10	8	7	9	13	5	(CM)	10	11
15	4	4	3	6	7	7	7	6	10	19	15	9	9	10	8	16	8	15	9	11	9	9	12	17	10
16	13	4	7	7	8	21	17	15	12	11	11	13	13	13	11	11	9	8	12	11	9	8	7	6	11
17	6	4	13	3	5	10	4	22	9	23	28	38	38	26	19	25	23	8	9	4	15	12	11	6	15
18	4	4	2	4	5	2	7	6	21	32	26	38	40	30	22	28	11	4	11	3	10	9	12	14	15
19	17	4	17	4	19	13	12	16	11	14	31	22	23	25	19	14	11	7	18	23	10	6	6	8	15
20	13	6	9	19	4	13	12	9	34	15	14	15	14	14	12	11	8	7	7	8	17	14	15	19	13
21	14	7	3	13	4	7	3	(CM)	35	25	16	15	17	16	14	14	8	8	13	7	5	9	9	(CM)	12
22	13	9	5	12	10	7	13	6	31	47	31	36	22	25	19	19	12	7	5	17	27	13	20	8	16
23	16	4	13	4	12	20	7	13	14	20	31	36	22	26	13	11	10	9	6	17	27	13	20	8	16
24	12	13	6	17	5	7	7	12	27	10	10	14	14	14	12	12	8	13	14	3	2	0	0	0	10
25	0	0	6	6	0	0	0	10	23	22	24	34	35	25	30	31	13	6	7	7	7	19	25	26	15
26	14	13	15	6	14	12	13	15	12	10	11	13	13	10	12	17	15	12	7	7	13	14	10	9	13
27	10	12	24	14	7	5	12	4	10	14	15	15	12	11	11	10	8	6	21	24	26	7	7	24	13
28	19	12	13	24	15	14	12	4	4	4	10	9	9	12	11	12	14	8	19	13	7	8	7	8	12
29	7	9	5	7	5	15	10	10	12	10	12	11	12	10	14	13	10	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	(CM)	10
30	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	10	17	2	0	0	0	0	0	0	17
31	0	0	0	0	0	0	0	0	5	10	25	14	19	26	(CM)	15	(CM)	(CM)	3	6	17	6	14	11	8
AV	11	15	10	10	4	19	10	11	16	16	18	17	17	17	14	15	11	8	9	10	11	10	11	11	12
PK	22	14	24	24	31	27	24	22	36	32	47	38	40	30	30	31	23	15	21	34	27	19	26	26	47

SIGMA 40412. WIND DIR. & SUM
DEGREES

CB-TRACT
TRAILER AA23
OCT 1961
OCCIDENTAL OIL SHALE INC.

DAY	HOUR (LOCAL STANDARD TIME)																								AVE	PEAK
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	6	16	14	11	24	(CM)	12	18	15	14	19	19	25	21	17	16	20	6	2	21	25	17	13	4	16	28
2	11	7	11	9	10	12	12	10	7	7	11	8	8	11	8	7	6	8	5	4	5	6	24	15	9	24
3	9	22	13	14	10	10	12	15	25	9	8	9	9	10	10	9	9	7	10	33	15	11	12	9	13	33
4	9	4	7	7	32	10	14	10	9	11	13	26	9	11	9	12	7	5	9	16	11	15	11	15	12	32
5	7	5	15	14	5	6	13	(CM)	18	7	10	13	11	12	10	20	7	5	3	3	2	7	19	10	10	20
6	13	17	10	21	12	9	6	13	14	17	19	13	14	27	20	16	13	5	3	3	4	15	9	7	13	27
7	17	4	6	3	3	7	12	12	9	13	13	12	12	11	11	11	11	13	9	8	6	5	6	8	9	17
8	13	16	7	7	7	10	6	16	(PF)	11	12	21	8	12	10	11	12	11	7	5	6	4	6	6	10	21
9	10	14	7	5	21	9	7	9	14	21	38	21	25	17	16	14	11	5	7	7	21	25	8	15	15	38
10	11	11	7	10	20	11	4	5	10	10	12	11	11	12	11	10	10	12	12	11	11	13	13	13	11	20
11	15	15	11	9	4	6	7	4	7	9	10	10	10	12	12	14	7	13	6	7	18	9	11	11	10	19
12	10	14	7	17	11	15	25	9	22	36	10	11	17	12	11	13	8	7	7	18	20	10	24	9	15	36
13	11	10	21	12	5	6	5	6	21	12	12	12	13	11	12	13	9	9	8	9	7	7	8	14	11	21
14	8	5	10	7	7	15	5	14	11	15	12	9	13	12	12	14	7	7	6	13	15	7	28	20	11	28
15	9	30	11	5	7	4	11	5	5	14	16	7	8	10	8	14	7	12	9	10	8	6	11	14	10	30
16	11	2	7	5	4	27	22	13	14	11	10	11	11	12	10	10	8	8	13	10	8	6	5	4	11	27
17	5	7	4	(CM)	13	13	10	13	17	23	36	31	29	22	15	17	11	4	(CM)	13	10	24	9	5	15	36
18	2	30	7	21	12	3	14	14	17	24	26	31	34	25	21	27	9	4	8	7	15	6	9	(CM)	16	34
19	13	24	13	21	1	13	20	11	9	14	31	20	18	20	17	12	10	4	25	47	16	15	4	11	17	47
20	35	15	14	32	32	11	23	14	32	13	16	12	13	13	11	10	7	5	6	6	16	18	31	50	18	50
21	27	15	(CM)	(CM)	12	11	4	13	20	22	14	16	14	14	13	12	8	7	10	7	4	6	11	18	12	27
22	4	15	(CM)	11	5	(CM)	(CM)	7	25	25	34	16	15	23	17	15	10	4	7	6	17	18	22	12	15	36
23	(CM)	32	(CM)	11	4	22	21	11	23	20	27	30	21	24	12	11	8	7	4	24	24	7	19	(CM)	18	33
24	11	13	14	13	5	7	7	11	40	9	9	9	12	15	15	11	7	44	23	8	7	7	8	6	13	44
25	11	13	15	7	5	1	6	6	25	16	23	38	33	24	27	32	12	4	5	5	7	17	34	29	17	38
26	22	12	23	14	35	22	23	21	12	6	10	11	12	9	10	16	15	14	5	5	10	12	14	11	15	35
27	10	14	29	23	5	5	13	10	9	15	14	13	11	10	10	9	8	5	21	40	23	6	6	20	14	40
28	21	10	11	14	15	13	11	6	9	8	9	9	9	12	10	10	13	6	16	13	7	8	7	7	11	21
29	7	9	6	5	5	15	6	10	12	10	11	10	11	9	14	13	9	9	0	0	3	7	1	0	8	15
30	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	9	13	(CM)	0	0	0	0	0	0	13	13
31	0	0	0	0	1	1	0	0	0	9	25	18	16	16	28	14	(CM)	(CM)	(CM)	4	26	26	7	11	10	28
40	12	14	11	13	12	11	14	11	15	15	17	16	15	15	14	14	10	9	9	12	12	11	13	12	13	
50	35	33	24	32	35	27	25	21	40	36	35	36	34	27	24	32	20	44	25	47	26	26	34	50		50

TEMPERATURE
DEGREE C

CB-TRACT
TRAILER AB20
OCT 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK	
1	2	1	1	0	-1	-1	-1	3	6	13	16	20	23	24	24	24	23	21	16	11	9	8	8	8	11	24	
2	7	7	9	9	9	9	9	9	11	12	14	16	16	17	16	14	13	13	13	12	12	12	12	12	12	17	
3	11	11	11	10	9	9	9	9	9	9	11	12	14	14	16	14	13	13	11	11	11	11	11	11	11	16	
4	3	11	9	9	9	9	9	9	9	10	9	9	9	9	8	6	7	7	6	6	6	6	6	5	8	11	
5	6	6	6	6	7	8	8	8	9	11	14	14	13	13	14	14	14	12	9	7	7	4	3	3	9	14	
6	2	2	2	1	1	1	2	4	8	14	18	19	19	19	20	19	19	17	12	8	7	6	6	5	10	20	
7	4	4	3	3	3	3	3	6	12	16	18	19	19	19	19	19	19	18	14	10	9	12	14	12	12	19	
8	13	13	10	10	9	8	9	8	8	9	8	8	8	9	9	9	8	8	7	7	6	6	6	6	7	13	
9	5	3	3	3	3	3	2	3	7	9	11	12	12	12	13	13	13	11	7	4	3	3	2	1	7	13	
10	2	3	4	5	6	6	6	8	10	14	16	17	18	18	18	17	17	16	12	10	11	11	13	13	11	18	
11	11	10	10	11	13	13	12	13	12	14	15	14	13	10	7	3	4	4	4	4	3	4	3	3	3	9	15
12	3	3	3	3	3	2	2	2	3	6	11	12	12	13	13	12	12	10	8	7	6	6	5	4	7	13	
13	4	3	2	2	2	2	1	1	2	5	12	12	13	14	14	13	12	11	9	8	7	6	5	4	7	14	
14	4	4	4	4	4	3	3	4	7	9	10	11	11	12	12	12	11	8	7	5	3	2	3	3	3	7	12
15	3	2	2	0	1	1	2	2	3	4	6	6	7	6	7	7	7	7	7	7	7	6	6	6	4	7	7
16	6	6	6	3	2	2	0	2	6	6	7	8	7	8	7	6	6	5	4	3	2	2	2	2	4	8	8
17	2	2	2	2	2	2	2	2	4	6	8	10	12	13	12	11	12	12	8	9	9	8	7	4	4	7	13
18	3	1	1	-1	-2	-2	2	-1	2	7	9	11	12	12	13	13	12	9	4	2	-1	-2	-2	-2	4	13	13
19	-3	-4	-4	-6	-4	-4	-4	-2	2	6	9	14	(MT)	18	17	18	17	13	8	6	4	3	1	1	5	18	18
20	1	1	0	1	0	0	-1	-2	6	13	14	14	16	16	16	17	16	12	8	7	5	4	2	2	7	17	17
21	0	-1	-1	-1	-2	-3	-3	-3	3	6	11	13	14	16	15	16	13	10	4	2	1	-1	-2	-3	2	16	16
22	-3	-3	-3	-3	-5	-6	-4	-3	1	6	9	11	12	12	13	13	12	6	2	1	-1	-2	-2	-3	2	13	13
23	-4	-4	-5	-4	-4	-5	-4	-4	2	7	12	14	14	14	16	14	13	10	8	6	3	2	2	0	4	16	16
24	1	1	2	2	2	2	2	3	3	6	7	7	6	4	2	2	2	2	2	3	2	2	1	0	3	9	9
25	1	1	1	1	0	-1	-3	-5	0	2	4	6	7	8	9	9	9	6	3	3	2	1	1	0	3	9	68
26	-1	-2	-2	-2	-2	-1	-1	1	6	10	12	13	47	68	17	17	14	9	6	5	4	3	3	3	9	7	16
27	3	2	2	2	2	2	2	3	7	13	16	16	16	16	16	15	13	9	6	4	3	4	3	3	7	16	16
28	4	7	3	3	3	4	6	7	10	13	12	12	12	11	11	12	11	9	9	9	10	10	8	7	8	13	13
29	7	7	7	6	6	6	6	4	8	6	6	6	3	5	7	6	3	3	3	2	2	1	2	3	5	8	8
30	0	0	0	1	0	0	-1	-1	0	0	1	2	3	3	4	3	3	0	-2	-4	-7	-9	-8	-11	-1	4	4
31	-13	-11	-12	-12	-15	-14	-15	-13	-10	-7	-3	1	5	6	8	7	6	3	-1	-2	-3	-7	-7	-8	-5	8	8
32	3	3	2	2	2	2	2	3	5	8	10	12	13	14	13	12	11	9	7	6	5	4	4	3	6	68	68
33	-13	-11	-12	-12	-15	-14	-15	-13	-10	-7	-3	1	5	6	8	7	6	3	-1	-2	-3	-7	-7	-8	-5	8	8

MONTHLY MINIMUM = -15

TEMPERATURE - 10M
DEGREE C

CB-TRACT
TRAILER AA23
OCT 1981
OCCIDENTAL OIL SHALE INC.

DAY	HOUR (LOCAL STANDARD TIME)																								AVE PEAK	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	7	4	3	3	3	3	3	6	11	14	10	21	22	22	22	23	22	20	16	14	13	13	13	13	13	23
2	13	13	13	13	13	13	12	11	10	11	12	12	13	13	11	11	10	9	9	9	9	9	9	9	9	13
3	8	8	8	7	7	6	6	7	7	8	8	9	11	11	12	12	12	11	9	9	9	8	8	8	8	11
4	9	8	7	7	7	7	7	7	7	8	8	8	8	8	6	4	4	4	4	3	4	3	3	3	3	6
5	3	3	3	3	4	4	4	5	5	13	15	18	17	17	11	11	12	14	8	8	7	6	5	5	5	7
6	4	4	4	4	4	5	4	11	13	14	16	16	17	17	17	17	17	16	14	13	13	13	13	13	10	18
7	7	7	7	7	7	7	7	11	13	14	16	16	16	17	17	17	17	16	14	13	13	13	13	13	13	17
8	13	12	12	12	12	12	12	13	(PF)	7	6	7	7	7	8	7	6	6	5	4	4	4	4	4	4	7
9	3	3	3	3	3	3	3	3	4	7	9	9	11	11	11	11	10	14	13	12	12	12	13	13	11	16
10	4	4	4	4	4	4	4	4	11	12	12	14	14	15	16	16	15	14	13	12	12	12	13	13	11	16
11	13	13	12	12	12	11	11	10	9	12	12	11	11	7	4	2	2	2	2	2	2	3	3	2	2	7
12	2	2	2	2	1	1	1	2	3	6	6	8	9	8	9	9	9	9	7	6	4	3	3	3	3	9
13	3	3	3	3	3	4	4	5	4	6	7	7	9	11	11	11	11	6	4	4	4	3	3	3	3	11
14	3	3	3	3	3	3	3	3	3	3	6	4	4	4	4	4	4	4	4	4	4	4	4	4	4	11
15	2	2	2	2	2	2	2	2	3	3	6	4	4	4	5	4	4	4	4	4	4	4	4	4	4	11
16	3	3	3	3	3	3	3	3	3	3	6	5	5	5	5	4	3	3	2	2	2	2	2	2	2	5
17	1	1	1	1	1	1	1	1	2	3	4	5	5	5	5	4	3	3	2	2	2	2	2	2	2	5
18	2	2	2	2	2	2	2	2	3	3	6	6	9	9	9	8	7	6	6	6	5	4	4	4	4	9
19	0	0	0	0	0	0	0	0	3	4	6	6	12	12	12	12	11	8	6	6	5	4	4	4	4	9
20	3	3	3	3	3	3	3	3	3	7	9	11	12	12	12	12	11	11	8	6	6	5	4	4	4	6
21	4	4	4	4	4	4	4	4	4	8	10	12	13	13	14	14	13	11	8	7	6	6	6	6	6	8
22	0	0	0	0	0	0	0	0	0	2	4	7	9	9	9	8	7	5	3	3	3	2	1	1	1	5
23	0	0	0	0	0	0	0	0	0	6	8	12	13	13	14	14	13	11	8	7	6	6	6	6	6	12
24	4	4	4	4	4	4	4	4	5	6	8	14	14	14	14	14	13	11	8	7	6	6	6	6	6	16
25	2	2	2	2	2	2	2	2	2	5	6	13	14	14	14	14	13	11	8	8	7	6	6	6	6	14
26	1	1	1	1	1	1	1	1	2	4	7	9	9	9	9	8	7	5	3	3	3	2	1	1	1	9
27	8	7	7	7	7	7	7	7	10	12	13	14	14	14	14	14	13	11	8	7	6	6	6	6	6	14
28	7	7	7	7	7	7	7	7	11	12	13	14	14	14	14	14	13	11	8	7	6	6	6	6	6	14
29	7	7	7	7	7	7	7	7	12	13	14	14	14	14	14	14	13	11	8	7	6	6	6	6	6	14
30	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	0	-1	-1	-1	-1	-1	-1	-1	9
31	-6	-6	-6	-6	-6	-6	-6	-6	-7	-4	-2	-1	2	2	2	-1	2	-2	-2	-3	-2	-2	-3	-3	-3	2
AVG	13	13	13	13	13	13	13	11	13	14	14	21	22	22	22	23	22	20	16	14	13	13	13	13	13	23

MONTHLY MINIMUM = -8

AVE	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	6
MAX	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	20	16	14	13	13	13	13	13	23
MIN	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-2	-2	-3	-3	-3	-4	-4	-4	-4

TEMPERATURE x 30M
 DEGREE C

CB-TRACT
 TRAILER AA23
 OCT 1981
 OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	7	6	4	5	4	4	4	7	11	14	17	20	22	22	22	22	21	19	17	16	13	13	13	14	13	22
2	14	14	14	14	13	13	12	11	9	10	12	12	13	13	11	10	10	9	9	9	9	9	9	9	11	14
3	9	9	7	7	7	6	6	6	7	7	8	8	9	11	11	12	11	11	9	9	9	8	9	9	9	12
4	9	7	7	7	7	6	7	7	7	8	8	8	8	7	6	3	4	4	4	3	3	3	3	3	6	9
5	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	8	12
6	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	11	17
7	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	13	17
8	13	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	7	13
9	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	6	11
10	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	13
11	13	13	12	12	12	11	11	10	9	11	12	14	14	14	16	15	15	14	13	13	12	13	13	13	11	16
12	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	7	13
13	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	5	9
14	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	6	11
15	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	5	10
16	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	5
17	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	5
18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	5
19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	5
20	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	8
21	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	12
22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	12
23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	16
24	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	7	16
25	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	7	14
26	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	13
27	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	7	13
28	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	10	14
29	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	9	11
30	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	3	8
31	-4	-5	-5	-5	-7	-5	-5	-7	-7	-4	-3	-1	1	2	2	-2	-2	-2	-2	-3	-3	-2	-2	-2	-2	-2

MONTHLY MINIMUM = -7

CB-TRACT
TRAILER AA23
OCT 1981
OCCIDENTAL OIL SHALE INC.

TEMPERATURE ~ 60°
DEGREE C

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	7	6	6	5	4	4	5	8	12	15	18	21	22	22	22	22	21	19	18	16	13	13	13	14	13	22
2	14	14	14	13	13	12	12	11	9	10	12	12	13	13	11	10	9	9	9	9	9	9	9	9	11	14
3	9	7	7	7	6	6	6	6	7	7	8	9	11	11	12	12	11	10	9	9	8	8	8	9	9	12
4	8	7	7	8	7	8	7	7	7	7	8	8	7	7	6	3	4	4	3	3	3	3	3	3	6	8
5	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	()
6	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	()
7	3	4	4	4	4	6	5	5	7	8	11	11	16	16	16	17	17	16	14	13	13	13	13	13	10	17
8	13	12	2	2	2	2	1	3	4	7	6	7	6	7	7	7	6	4	4	4	4	4	4	3	7	13
9	3	2	2	2	2	2	1	3	4	7	7	9	9	10	10	10	10	9	7	7	6	6	7	6	6	10
10	6	6	7	6	7	7	7	9	10	12	12	14	15	16	16	15	14	13	13	12	12	12	12	12	11	16
11	12	12	12	12	12	11	9	9	10	11	12	10	10	7	4	1	2	2	3	3	3	3	2	2	2	7
12	3	3	3	2	2	2	1	2	4	6	8	8	9	9	9	9	9	7	6	5	4	4	3	3	5	9
13	2	3	3	2	4	4	3	5	7	8	10	10	11	11	11	11	9	8	8	6	4	3	3	3	6	11
14	3	3	2	1	1	1	1	3	4	6	7	7	8	9	9	9	8	4	4	4	4	3	3	3	5	9
15	2	2	1	1	1	1	1	1	1	3	5	4	4	3	3	3	4	4	4	3	3	2	2	3	3	5
16	3	3	3	2	2	1	1	2	3	2	3	5	5	4	4	4	3	2	2	2	1	1	1	2	2	5
17	1	1	0	0	0	0	1	1	2	3	4	7	8	9	8	8	7	6	5	6	6	4	4	4	4	9
18	3	2	1	1	1	1	1	1	3	6	8	10	10	11	11	11	10	8	6	4	4	3	2	2	5	11
19	2	1	0	0	0	1	2	3	7	9	12	14	15	16	16	15	13	11	9	7	6	6	5	6	7	16
20	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	()
21	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	()
22	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	()
23	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	()
24	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	()
25	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	()
26	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	()
27	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	()
28	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	()
29	5	4	4	4	3	4	4	5	-1	4	4	3	1	2	3	3	1	0	0	1	0	-1	0	0	2	5
30	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()	()
31	-4	-4	-5	-5	-6	-5	-5	-6	-4	-3	-2	-1	1	2	2	2	2	-2	-2	-3	-3	-1	-2	-2	-2	2

AV	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
PK	14	14	14	13	13	12	12	11	12	15	18	21	22	22	22	22	21	19	18	16	13	13	13	14	14	22
MI	-4	-4	-5	-6	-6	-6	-6	-6	-4	-3	-2	-1	1	2	2	-2	-2	-2	-2	-3	-3	-3	-3	-4	-4	

MONTHLY MINIMUM = -6

TEMPERATURE @10M

C-B TRACT
MRI AD42
October 1981

Refer to pages II-710through II-746

Mechanical Recordering Instrument was removed and replaced by an R.A. solar powered data acquisition system installed July 25, 1981. Monitoring of data and maintenance of the instrumentation was contracted to WestAq Corp. upon purchase of the equipment.

TEMPERATURE @10M

C-B TRACT
MRI AD56
October 1981

DATA NOT AVAILABLE AT REPORT TIME

DELTA TEMPERATURE 60-104
Dewar Cell 100

CB-TRACT
TRAILER AA23
OCT 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	-44	72	105	43	39	50	133	156	100	39	11	6	-44	-33	-11	-50	-67	-28	111	100	-67	-22	-28	39	27	156
2	122	83	34	-7	-44	-50	-67	-105	-117	-50	-33	-44	-39	-50	-111	-56	-56	-50	-11	6	-6	0	-28	-39	27	122
3	0	-11	-44	-33	-39	-61	-67	-39	-50	-50	-50	-39	11	17	11	-17	-50	-50	-61	-61	-72	-44	-56	-61	-39	17
4	-67	-106	-50	-67	-56	-50	-50	-39	-89	-89	-50	-17	-106	-100	-67	-67	-61	-61	-67	-72	-67	-67	-50	-66	-17	-66
5	22	78	72	-6	50	22	-33	-22	-22	-44	11	-22	-67	-56	-44	-50	-28	6	44	56	83	189	183	100	22	189
6	61	44	39	83	106	156	172	167	133	94	33	-117	-28	17	-6	6	-17	0	122	139	56	39	39	161	63	172
7	161	134	-44	94	122	61	22	17	-39	6	39	-39	-78	-78	-72	-72	-61	-44	-28	0	11	-6	0	6	5	161
8	-28	-72	-61	-44	22	6	-44	-72	(PF)	-61	-67	-44	-94	-44	-6	-44	-56	-50	-67	-72	-61	-56	-50	-72	-51	22
9	-56	-56	-25	-11	-11	-17	-50	6	11	11	-56	17	-22	-72	-67	-67	-50	6	-17	6	94	89	106	117	-5	117
10	156	144	126	67	-6	0	76	26	-22	-26	-26	6	-28	-17	-17	-44	-50	-56	-67	-33	0	-6	-56	-78	3	156
11	-72	-72	-122	-67	-50	-67	-61	-74	-44	-61	-50	-67	-83	-72	-56	-83	-44	-11	44	61	61	6	-28	28	-41	61
12	61	34	44	50	-22	28	17	39	72	44	-22	-72	-56	-44	-56	-56	-56	-56	-33	-22	-56	-72	-78	-50	-15	72
13	-28	44	43	111	39	0	72	89	-22	-22	-28	-78	-61	-44	-50	-67	-50	-33	-22	17	6	-33	-28	-33	-6	111
14	-44	-33	-72	-50	-22	-50	-33	-17	-17	-28	-117	-72	-56	-83	-94	-89	-61	-72	-56	-39	6	17	44	22	-42	44
15	0	-11	-33	-6	0	-28	-17	-22	-11	-39	0	-17	0	-50	-50	-11	-39	-56	-50	-50	-67	-56	-22	-50	-28	0
16	0	-24	-33	-17	-33	-6	-44	-22	-28	-50	-50	-56	-50	-83	-100	-83	-78	-67	-56	-44	-50	-28	-11	-17	-44	0
17	-22	-39	-44	-33	-22	-22	-17	17	0	-39	-100	-28	22	33	17	-22	-50	-78	-61	-17	0	6	-11	-28	-25	33
18	-11	-11	6	0	6	44	111	50	33	-11	-11	17	-39	78	17	-67	-44	-89	-72	-56	0	39	33	83	7	111
19	117	33	-22	106	67	111	266	217	150	106	-6	89	72	67	28	-33	-78	-22	56	89	67	111	89	106	73	228
20	128	124	122	133	125	111	94	161	39	-28	-128	-106	-50	-44	-44	-72	-78	-28	6	50	33	78	139	117	37	161
21	67	67	-39	-22	50	74	39	0	22	78	56	28	-22	28	-11	-28	-50	-56	6	-17	44	28	67	111	22	111
22	44	74	39	50	56	83	22	83	50	28	-44	-33	-28	72	72	-33	-78	-139	-78	28	144	144	156	139	35	156
23	17	-39	133	111	117	124	83	167	139	22	-28	-89	-94	-22	-22	-61	-72	-39	50	39	56	150	144	72	40	167
24	11	-11	11	24	84	57	26	24	11	-44	-67	-67	-72	-56	-61	-28	-39	-56	-56	-61	-72	-67	-72	-72	-26	83
25	-67	-47	-75	-44	-72	-67	-67	50	56	83	6	-128	-122	11	-39	-106	-106	-39	6	6	-6	11	83	67	-28	83
26	56	22	49	174	144	111	124	111	6	-6	-39	-50	-44	-28	-33	-83	-72	-39	33	61	100	133	50	28	36	178
27	-11	61	44	50	57	74	67	6	-44	-50	-72	-83	-78	-67	-61	-72	-61	-33	28	56	72	17	6	0	-1	94
28	34	17	11	67	39	74	0	-44	-50	-61	-67	-67	-67	-50	-50	-78	-72	-61	-33	-28	-50	-44	-50	-33	-27	78
29	-28	-44	-11	106	74	0	-22	-28	-67	-67	-49	-67	-100	-61	-83	-33	-222	-39	6	61	133	-100	0	-6	-28	133
30 (PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	-67	-61	-44	-50	-33	-11	-6	-6	11	(	11
31	61	117	44	133	134	106	111	206	226	72	-28	-11	-11	-17	-33	-56	-67	-44	22	56	117	83	117	44	60	228
AV	21	14	14	32	32	31	26	37	15	-9	-36	-42	-48	-24	-38	-54	-64	-46	-11	7	16	17	22	21	-3	226
ST	161	144	133	174	144	156	226	217	226	106	56	89	72	78	72	6	-17	6	122	139	144	149	183	161		
MIN	-72	-196	-122	-44	-72	-57	-67	-106	-117	-89	-126	-126	-122	-100	-111	-106	-222	-139	-78	-72	-72	-100	-78	-78		

MONTHLY MINIMUM = -222

CB-TRACT
TRAILER AA23
OCT 1961
OCCIDENTAL OIL SHALE INC.

RELATIVE HUMIDITY - 3W
PERCENT

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	43	43	43	44	44	43	44	44	42	37	29	27	25	24	22	22	22	22	22	23	24	26	28	29	32	44
2	29	29	31	32	42	45	44	53	63	61	60	48	45	42	46	60	60	60	60	60	60	60	58	29	32	44
3	56	57	55	57	50	53	53	53	63	61	55	55	47	45	42	40	40	40	45	47	52	52	52	56	49	60
4	46	53	54	60	54	54	57	57	62	61	61	56	54	54	54	61	62	63	63	64	64	64	64	64	60	64
5	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	60	64
6	57	57	54	54	60	61	51	61	51	43	36	28	26	25	25	25	25	25	28	38	42	44	46	49	43	61
7	53	55	57	50	50	45	45	44	35	32	31	27	27	26	25	25	25	25	26	28	28	30	32	32	36	57
8	34	35	35	35	34	35	35	35	63	54	55	61	64	62	60	59	62	61	62	63	64	64	64	64	58	64
9	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63
10	41	44	44	43	42	35	35	34	34	33	30	28	27	27	27	26	25	25	25	27	28	31	33	33	33	44
11	32	30	30	30	30	30	31	40	34	51	40	32	30	35	54	59	63	63	63	63	63	63	60	59	45	63
12	61	62	62	62	62	62	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	60	62	56	63
13	62	62	62	62	62	62	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	60	62	56	63
14	61	61	61	62	62	62	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	60	62	56	63
15	61	61	61	62	62	62	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	60	62	56	63
16	61	61	61	62	62	62	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	60	62	56	63
17	51	52	55	51	51	51	52	52	60	54	48	41	36	32	32	34	36	40	44	44	44	45	50	50	50	50
18	54	56	57	57	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62
19	56	57	73	74	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
20	42	43	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44
21	41	44	45	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44
22	56	60	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61
23	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
24	35	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
25	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63
26	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
27	29	24	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
28	27	24	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
29	54	57	54	50	51	44	40	44	34	35	51	63	63	60	52	55	65	65	65	65	64	64	64	64	58	65
30	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	60	64
31	60	60	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61

MONTHLY MINIMUM = 21

SOLAR RADIATION
LATITUDE

CB-TRACT
TRAILER AB23
OCT 1961
OCCIDENTAL OIL SHALE INC.

HOURLY (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TL	PEAK
1	0	0	0	0	0	0	3	10	31	45	55	60	60	55	46	32	16	2	0	0	0	0	0	0	421	60
2	0	0	0	0	0	0	0	1	3	13	20	13	28	17	7	5	3	0	0	0	0	0	0	0	110	28
3	0	0	0	0	0	0	0	2	4	7	11	23	54	49	47	34	14	2	0	0	0	0	0	0	247	54
4	0	0	0	0	0	0	0	1	4	14	19	14	7	10	6	2	4	1	0	0	0	0	0	0	70	14
5	0	0	0	0	0	0	1	5	14	30	50	46	8	15	12	10	8	1	0	0	0	0	0	0	211	50
6	0	0	0	0	0	0	2	15	29	40	50	58	59	52	37	30	13	1	0	0	0	0	0	0	386	59
7	0	0	0	0	0	0	2	15	20	35	53	58	49	49	24	30	14	2	0	0	0	0	0	0	353	55
8	0	0	0	0	0	0	4	4	(PF)	11	7	8	6	17	8	7	3	0	0	0	0	0	0	0	70	17
9	0	0	0	0	0	0	2	12	24	34	43	41	49	35	30	11	10	1	0	0	0	0	0	0	295	49
10	0	0	0	0	0	0	1	1	18	19	22	22	41	34	25	14	9	1	0	0	0	0	0	0	241	52
11	0	0	0	0	0	0	0	5	13	23	22	13	11	7	2	6	4	1	0	0	0	0	0	0	106	23
12	0	0	0	0	0	0	1	5	13	40	48	50	55	44	24	22	7	1	0	0	0	0	0	0	311	55
13	0	0	0	0	0	0	1	11	17	50	50	44	41	47	24	20	7	1	0	0	0	0	0	0	307	56
14	0	0	0	0	0	0	1	12	25	37	40	26	41	29	35	23	8	1	0	0	0	0	0	0	283	41
15	0	0	0	0	0	0	0	1	14	25	25	15	16	8	4	2	2	0	0	0	0	0	0	0	97	25
16	0	0	0	0	0	0	0	1	15	17	42	25	38	32	28	15	8	1	0	0	0	0	0	0	271	52
17	0	0	0	0	0	0	0	3	13	23	25	23	44	28	14	14	5	0	0	0	0	0	0	0	221	53
18	0	0	0	0	0	0	2	15	26	39	49	48	54	49	39	25	10	0	0	0	0	0	0	0	356	54
19	0	0	0	0	0	0	1	11	27	39	49	53	54	49	39	26	10	0	0	0	0	0	0	0	354	54
20	0	0	0	0	0	0	1	11	25	39	49	54	53	48	39	26	10	0	0	0	0	0	0	0	354	54
21	0	0	0	0	0	0	1	10	25	36	47	52	52	47	38	25	10	0	0	0	0	0	0	0	346	52
22	0	0	0	0	0	0	1	15	24	36	47	53	53	47	38	24	8	0	0	0	0	0	0	0	355	53
23	0	0	0	0	0	0	1	10	24	36	47	52	52	41	37	14	8	0	0	0	0	0	0	0	322	52
24	0	0	0	0	0	0	0	5	5	6	9	9	10	8	5	2	1	0	0	0	0	0	0	0	61	10
25	0	0	0	0	0	0	1	9	19	49	47	51	52	44	37	23	8	0	0	0	0	0	0	0	341	52
26	0	0	0	0	0	0	0	9	23	37	45	50	51	46	36	21	5	0	0	0	0	0	0	0	325	51
27	0	0	0	0	0	0	0	7	20	26	44	50	51	45	32	20	6	0	0	0	0	0	0	0	296	51
28	0	0	0	0	0	0	0	5	22	15	15	23	44	46	40	23	10	0	0	0	0	0	0	0	247	46
29	0	0	0	0	0	0	0	8	14	17	34	4	4	10	29	7	0	0	0	0	0	0	(PF)	127	34	
30	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	7	4	0	0	0	0	0	0	11	7
31	1	0	1	0	0	0	1	15	24	32	38	43	48	41	34	23	8	0	0	0	0	0	0	0	308	48
TL	0	0	0	0	0	0	25	208	549	859	1102	1150	1184	1054	820	545	231	13	0	0	0	0	0	0	7806	60

MAROMETRIC PRESSURE
MILLIBARS

CB-TRACT
TRAILER AB23
OCT 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	749	790	790	790	790	790	790	790	789	789	789	788	788	787	787	787	786	786	787	787	787	787	787	787	788	790
2	747	747	747	747	745	745	745	745	747	745	745	744	744	744	744	744	742	742	742	742	741	740	740	740	744	787
3	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	744	787
4	744	744	744	744	745	745	745	745	741	741	741	741	741	741	741	741	740	740	740	740	740	740	740	740	744	787
5	744	744	744	744	745	745	745	745	741	741	741	741	741	741	741	741	740	740	740	740	740	740	740	740	744	787
6	746	747	745	747	747	747	747	747	740	744	744	744	744	744	744	744	743	743	743	743	743	743	743	743	744	784
7	743	743	743	742	742	742	742	742	741	741	741	741	741	741	741	741	740	740	740	740	740	740	740	740	744	783
8	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	743	743	743	743	743	743	743	743	744	783
9	777	777	777	777	777	777	777	777	776	776	776	776	776	776	776	776	775	775	775	775	775	775	775	775	776	778
10	741	741	741	741	741	741	741	741	741	741	741	741	741	741	741	741	740	740	740	740	740	740	740	740	744	783
11	775	775	775	775	775	775	775	775	774	774	774	774	774	774	774	774	773	773	773	773	773	773	773	773	774	778
12	775	775	775	775	775	775	775	775	774	774	774	774	774	774	774	774	773	773	773	773	773	773	773	773	774	778
13	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	776	776	776	776	776	776	776	776	777	779
14	779	779	779	779	779	779	779	779	778	778	778	778	778	778	778	778	777	777	777	777	777	777	777	777	778	779
15	783	783	783	783	783	783	783	784	785	785	785	785	785	785	785	785	784	784	784	784	784	784	784	784	785	785
16	780	780	780	780	780	780	780	781	781	781	781	781	781	781	781	781	780	780	780	780	780	780	780	780	781	784
17	782	783	783	783	784	784	784	785	786	787	787	787	787	787	787	787	786	786	786	786	786	786	786	786	787	789
18	784	784	784	784	785	785	785	786	787	787	787	787	787	787	787	787	786	786	786	786	786	786	786	786	787	791
19	780	780	780	780	780	780	780	780	780	780	780	780	780	780	780	780	779	779	779	779	779	779	779	779	782	792
20	786	786	786	786	786	786	786	786	786	786	786	786	786	786	786	786	785	785	785	785	785	785	785	785	786	792
21	744	744	744	744	744	744	744	744	741	741	741	741	741	741	741	741	740	740	740	740	740	740	740	740	741	784
22	784	784	784	784	784	784	784	784	784	784	784	784	784	784	784	784	783	783	783	783	783	783	783	783	784	785
23	784	784	784	784	784	784	784	784	784	784	784	784	784	784	784	784	783	783	783	783	783	783	783	783	784	785
24	777	777	777	777	777	777	777	777	776	776	776	776	776	776	776	776	775	775	775	775	775	775	775	775	776	785
25	777	777	777	777	777	777	777	777	776	776	776	776	776	776	776	776	775	775	775	775	775	775	775	775	776	785
26	781	781	781	781	781	781	781	781	780	780	780	780	780	780	780	780	779	779	779	779	779	779	779	779	780	781
27	782	782	782	782	782	782	782	782	781	781	781	781	781	781	781	781	780	780	780	780	780	780	780	780	781	782
28	781	781	781	781	781	781	781	781	780	780	780	780	780	780	780	780	779	779	779	779	779	779	779	779	780	781
29	776	776	776	776	776	776	776	776	775	775	775	775	775	775	775	775	774	774	774	774	774	774	774	774	775	776
30	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	(PF)	791	791	791	791	791	791	791	791	791	791
31	789	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	789	789	789	789	789	789	789	789	790	792
AV	782	782	782	782	782	782	782	782	783	783	783	783	783	782	782	782	781	780	781	782	782	782	782	782	782	782
ST	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	794
MIN	774	774	774	774	774	774	774	774	774	774	774	774	774	773	773	773	773	773	773	773	773	773	773	773	774	775

MONTHLY MINIMUM = 748

PRECIPITATION
CWS100

CB-TRACT
TRAILER AB20
OCT 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TL PEAK
1																									()
2								13	13	13	5				8										51 13
3						4	13	13	13	13	5	3													104 38
4						8	5	13	13	6	5	5	18	3	38		13	8			5		18	51	208 51
5				15		10																			28 18
6																									()
7																									()
8								63			13		13				18		13						127 63
9																									()
10																									()
11																51									51 51
12																					13	25	13		63 25
13																					13				20 13
14																									()
15								13	13	13	13						20	13		5	51	25			165 51
16	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()
17	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()
18	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()
19	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	(RF)	()
20																									()
21																									()
22																									()
23																									()
24																	8	5		13					25 13
25																									()
26																									()
27																									()
28																									()
29													10	3	13			13			13	13			63 13
30																									107 107
31																									()

TL ()	107	107	3	15	15	30	40	114	51	46	41	8	48	5	51	58	58	48	13	18	56	63	56	63	1013
PK	107	107	3	15	4	13	38	83	13	13	13	5	18	3	38	51	20	13	13	13	51	25	25	51	107

PRECIPITATION
C-9100

CB-TRACT
TRAILER AB23
OCT 1981
OCCIDENTAL OIL SHALE INC.

DAY	HOUR (LOCAL STANDARD TIME)																								TL PEAK
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1																									()
2									36							13									48
3				13	36																				36
4								13	36							13						25	43		51
5				25																					38
6																									43
7																									25
8																									()
9		14						20		13	13		13			13	13								()
10																									20
11									(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
12	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
13																									()
14																									51
15																									38
16								63								36			51		25	13			18
17																									()
18																									18
19																									()
20																									63
21																									190
22																									()
23																									()
24					14	6		5																	25
25																									()
26																									()
27																									()
28																									()
29																									()
30					10	26		14					14					13					13		43
31																									63
TL ()		14	()	34	23	17	3	117	74	13	13	()	13	30	()	76	()	13	76	()	38	94	13	43	775
PK		14		25	13	30	7	63	36	13	13	13	13	18		36		13	51		25	38	13	43	63

EVAPORATION

C-8 TRACT
TRAILER AB23
October 1981

NOT OPERATIONAL

INVERSION HEIGHT
AFTERS

CB-TRACT
TRAILER AC20
OCT 1981
OCCIDENTAL OIL SHALE INC.

DAY	HOUR (LOCAL STANDARD TIME)																								AVE PEAK	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	340	380	340	370	370	350	380	325	200	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	240	260	255	310	380	420	334	420
2	310	405	450	410	315	305	295	255	160	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	150	345	315	320	315	275	288	460
3	400	415	395	340	335	325	290	180	(NV)	(NV)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	415
4	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
5	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
6	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
7	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
8	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
9	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
10	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
11	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
12	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
13	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
14	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
15	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
16	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
17	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
18	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
19	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
20	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
21	340	395	305	315	345	405	360	305	370	375	155	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	40	435	485	545	565	540	530	()	565
22	310	305	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	310
23	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
24	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
25	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
26	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
27	285	225	245	310	310	310	335	360	195	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	40	190	205	190	220	245	245	()	245
28	180	140	175	140	220	200	155	160	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	100	245	295	320	335	340	335	()	360
29	250	320	370	340	240	335	280	115	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	45	240	260	270	275	310	203	310
30	315	350	340	300	240	335	280	115	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	180	360	275	280	305	360	350	301	390
31	140	160	140	245	240	145	120	135	140	200	90	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	(NV)	190	235	200	200	205	200	()	330
																		55	175	220	205	195	225	240	174	240

STABILITY CLASS 50M
0=STH 1=U/S

CB-TRACT
TRAILER AC20
OCT 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	PREV
1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
4	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
5	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
6	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
7	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
8	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
9	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
10	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
11	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
12	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
13	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
14	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
15	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
16	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
17	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
18	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
19	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
20	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
21	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	()
22	0	0	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
23	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
24	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
25	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()
26	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	(1M)	1	1	1	1	1	1	0	0	0	0	0	0	1
27	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1
31	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0
32	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()

STABILITY CLASS 2000
 0=STH 1=JUST

CB-TRACT
 TRAILER AC20
 OCT 1981
 OCCIDENTAL OIL SHALE INC.

— HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	PREV
1	6	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
4	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)
5	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)
6	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)
7	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)
8	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)
9	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)
10	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)
11	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)
12	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)
13	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)
14	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)
15	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)
16	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)
17	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)
18	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)
19	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)
20	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)
21	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
23	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)
24	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)
25	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)
26	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	1	1	1	1	1	1	1	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
28	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
30	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
31	0	0	0	1	1	1	0	0	0	1	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0
PV	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()

STABILITY CLASS USING 01/92
 01-10-19
 03-10

CB-TRACT
 TRAILER AA23
 OCT 1981
 OCCIDENTAL OIL SHALE, INC.

DAY	HOUR (LOCAL STANDARD TIME)																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	D	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
2	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
3	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
4	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
5	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
6	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
7	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
8	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
9	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
10	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
11	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
12	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
13	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
14	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
15	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
16	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
17	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
18	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
19	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
20	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
21	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
22	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
23	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
24	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
25	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
26	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
27	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
28	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
29	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
30	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
31	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
AVE	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E

TOTAL OCCURRING: E=103 D=300 F=253 HOURS MISSING= 33

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

ATMOSPHERIC OXIDE (NO)

C-H SHALE OIL PROJECT

PERIOD(10/01/81 TO 10/31/81)

TRAILER AB20

WIND DIRECTION

CONCENTRATION	N	NE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
MAX	3	3	2	3	2	2	2	2	2	2	2	2	2	3	4	
UG/4**3																
GT 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :
20. - 30. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :
10. - 20. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :
LT 10. :	4	5	6	16	121	153	91	33	41	16	21	10	48	37	15	10 108 : 74
TOTAL :	4	5	6	16	121	153	91	33	41	16	21	10	48	37	15	10 108 74
MEAN CONC.	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1

0 = 10 OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

NITRIC OXIDE (NO)

C-B SHALE OIL PROJECT

PERIOD(10/01/81 TO 10/31/81)

AH23

TRAILER

WIND DIRECTION

SSE

SE

ESE

E

ENE

NE

NNE

W

WSW

NW

NNW

CALM

TOTAL

CONCENTRATION

MAX

016/1883

CONCENTRATION	14	11	8	9	11	9	8	8	9	13	9	9	15	17	23	8
GT 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20. - 30. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
10. - 20. :	1	3	0	0	1	0	0	0	0	3	0	0	3	8	6	0
LT 10. :	15	9	7	11	20	39	41	39	91	143	113	39	22	44	16	14
TOTAL :	15	12	7	11	21	39	41	39	91	143	116	39	25	52	23	14
MEAN CONC.	7	7	5	6	6	6	5	5	4	4	5	5	6	7	9	7

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

OXIDES OF NITROGEN (NOX)

C-B SHALE OIL PROJECT

PERIOD(10/01/81 TO 10/31/81)

TRAILER AH20

CONCENTRATION MAX UG/44#3	WIND DIRECTION										W					NW					TOTAL				
	N	NNE	NE	ESE	E	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	5					
GT 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0 :
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0 :
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0 :
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0 :
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0 :
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0 :
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0 :
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0 :
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0 :
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0 :
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0 :
20. - 30. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0 :
10. - 20. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0 :
LT 10. :	9	5	6	16	121	153	91	33	41	16	21	10	48	37	15	10	108	74							
TOTAL :	7	5	6	16	121	153	91	33	41	16	21	10	48	37	15	10	108	74							
MEAN CONC.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0

0 = 40 OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

OXIDES OF NITROGEN (NOX)

C-B SHALE OIL PROJECT

PERIOD(10/01/81 TO 10/31/81)

AB23

TRAILER

WIND DIRECTION

CONCENTRATION

MAX
0.5/0.25

GT 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	2
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40. - 50. :	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	5
30. - 40. :	0	0	0	1	2	1	0	1	1	0	1	0	1	0	1	3	6	2	2	1	1	20	
20. - 30. :	3	3	0	1	1	1	0	0	1	3	11	4	1	3	15	11	2	11	2	2	60		
10. - 20. :	11	7	5	6	12	29	32	23	45	46	43	24	13	12	28	6	11	3	353				
LF 10. :	1	1	2	3	6	8	9	15	44	94	60	11	3	7	2	1	0	0	267				
TOTAL :	15	12	7	11	21	49	41	39	91	143	116	39	18	25	52	23	14	707					
MEAN CONC.	18	20	13	16	15	13	12	11	10	9	11	13	14	16	20	24	18	13					

0 = 10 OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

C-B SHALE OIL PROJECT

WIND DIRECTION (NO2)

PERIOD(10/01/81 TO 10/31/81)

AB20

TRAILER

WIND DIRECTION

S

SSW

SW

WSW

W

WNW

NW

NNW

CALM

TOTAL

CONCENTRATION

MAX

100/4443

67 130. :

120. - 130. :

110. - 120. :

100. - 110. :

90. - 100. :

80. - 90. :

70. - 80. :

60. - 70. :

50. - 60. :

40. - 50. :

30. - 40. :

20. - 30. :

10. - 20. :

LT 19. :

TOTAL :

MEAN
CONC.

0 = 40 OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

C-B SHALE OIL PROJECT

CHLORINE DIOXIDE (NO2)

PERIOD(10/01/81 TO 10/31/81)

FRAILER AB23

CONCENTRATION MAX US/8**3	N	NW	NE	ENE	E	ESE	SE	SSE	WIND DIRECTION				SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
									S	SSW	S	SSW								
GT 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20. - 30. :	1	1	0	1	1	1	0	1	1	0	1	0	0	0	0	0	0	1	0	8
10. - 20. :	2	1	0	0	1	0	0	0	1	0	1	0	5	1	1	4	16	8	3	43
LT 10. :	13	10	7	10	19	38	41	34	89	143	89	143	110	38	17	21	36	14	11	655
TOTAL :	16	12	7	11	21	39	41	39	91	143	91	143	116	39	18	25	52	23	14	707
MEAN CONC.	7	7	4	5	5	4	3	3	3	3	3	3	3	4	4	5	8	10	7	4

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

C-B SHALE OIL PROJECT

020000 (03)

PERIOD(10/01/81 TO 10/31/81)

IRAILER AB20

WIND DIRECTION

SE SSE S SSW SW W WNW NW NNW CALM TOTAL

CONCENTRATION

4AX

UG/0003

GT 240. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

DATE (93)

C-B SHALE OIL PROJECT

PERIOD(10/01/81 TO 10/31/81)

TRAILER AB23

WIND DIRECTION

CONCENTRATION MAX lbs/1000		WIND DIRECTION																W				NNW				CALM				TOTAL
		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	76	74	78	72	76	72							
GT 250. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
240. - 250. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
220. - 240. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200. - 220. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180. - 200. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160. - 180. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140. - 160. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120. - 140. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80. - 100. :	0	0	0	0	0	0	0	1	6	14	8	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
60. - 80. :	7	5	6	5	4	20	20	20	45	90	65	11	6	6	16	12	12	12	12	12	12	12	12	12	12	12	12	12	12	348
40. - 60. :	9	6	2	4	13	19	20	15	37	35	30	18	13	9	24	10	10	10	10	10	10	10	10	10	10	10	10	10	10	274
20. - 40. :	0	2	0	3	5	0	2	3	4	4	14	9	0	0	17	5	2	2	2	2	2	2	2	2	2	2	2	2	2	70
LT 20. :	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
TOTAL :	15	13	8	12	22	39	42	39	93	143	118	39	20	25	53	27	16	16	16	16	16	16	16	16	16	16	16	16	16	725
MEAN CONC.	58	54	59	51	50	58	58	57	60	65	60	53	58	61	48	56	52	52	52	52	52	52	52	52	52	52	52	52	52	58

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

C-B SHALE OIL PROJECT

CARBON MONOXIDE (CO)

PERIOD(10/01/81 TO 10/31/81)

TRAILER

AR20

WIND DIRECTION

SSW S SSE

WSW W WNW NW NNW CALM TOTAL

CONCENTRATION

MAX
US/10**3

913 574 453 504 1034 1034 1034 1254 1149 574 919 574 1034 1149 689 689 1149

GT 4000. :

3750. -4000. :

3500. -3750. :

3250. -3500. :

3000. -3250. :

2750. -3000. :

2500. -2750. :

2250. -2500. :

2000. -2250. :

1750. -2000. :

1500. -1750. :

1250. -1500. :

1000. -1250. :

LT 1000. :

TOTAL :

MEAN
CONC.

474 321 229 353 421 426 442 433 416 390 383 388 366 466 314 383 369 408

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

CARBON MONOXIDE (CO)

C-B SHALE OIL PROJECT

PERIOD(10/01/81 TO 10/31/81)

TRAILER AB23

WIND DIRECTION

CONCENTRATION	4	NNE	NE	ESE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
MAX	459	114	0	114	229	459	459	114	229	344	459	459	574	459	459	229	0	
06/4833																		
GT 4000.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3750.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3500.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3250.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3000.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2750.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2500.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2250.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2000.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1750.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1500.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1250.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1000.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LT 1000.	16	13	7	12	22	39	42	39	93	134	117	39	20	25	53	26	16	713
TOTAL	16	13	7	12	22	39	42	39	93	134	117	39	20	25	53	26	16	713
MEAN CONC.	35	8	0	9	20	23	19	14	33	55	53	41	166	78	30	39	0	41

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

SULFUR DIOXIDE (SO2)

C-B SHALE OIL PROJECT

PERIOD(10/01/81 TO 10/31/81)

TRAILER AB20

WIND DIRECTION

CONCENTRATION		WIND DIRECTION																TOTAL	
MAX	05/0005	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
130.	130.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120.	- 130.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110.	- 120.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100.	- 110.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90.	- 100.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.	- 90.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.	- 80.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60.	- 70.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.	- 60.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.	- 50.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.	- 40.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.	- 30.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.	- 20.	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
LT	10.	4	5	6	16	121	153	91	33	41	16	21	10	49	38	15	10	108	742
TOTAL		4	5	6	16	121	153	91	33	41	16	21	10	49	39	15	10	108	743
MEAN CONC.		4	4	3	3	3	3	4	4	4	4	3	3	3	4	3	3	3	3

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

SULFUR DIOXIDE (SO2)

C-B SHALE OIL PROJECT

PERIOD(10/01/81 TO 10/31/81)

TRAILER AR23

WIND DIRECTION

SSE SSE S SSW SW WNW NW NNW CALM TOTAL

5 10 13 18 20 25 36 37 24 11 25 13 685

CONCENTRATION

UG/M³#3

GT 130. :

120. - 130. :

110. - 120. :

100. - 110. :

90. - 100. :

80. - 90. :

70. - 80. :

60. - 70. :

50. - 60. :

40. - 50. :

30. - 40. :

20. - 30. :

10. - 20. :

LT 10. :

TOTAL :

MEAN

CONC.

0 = NO OBSERVATIONS

NUMBER OF ONE HOUR SAMPLES BY CONCENTRATION AND WIND DIRECTION AT 10 METERS

MYO 200001 SULTIDE (H2S)

C-B SHALE OIL PROJECT

PERIOD(10/01/81 TO 10/31/81)

TRAILER AB23

CONCENTRATION MAX UG/4**3	WIND DIRECTION										WIND DIRECTION				WIND DIRECTION				TOTAL
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6T 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120. - 130. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110. - 120. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100. - 110. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90. - 100. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80. - 90. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70. - 80. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60. - 70. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50. - 60. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40. - 50. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30. - 40. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20. - 30. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10. - 20. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LT 10. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN CONC.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

0 = NO OBSERVATIONS

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

C-B SHALE OIL PROJECT

10' TIDE LEVEL

STATION A420 PERIOD(10/01/61 TO 10/31/61)

WIND SPEED KNOTS AFTERS/SEC	WIND DIRECTION																TOTAL
	N	NE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR		
ST 11. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8. - 11. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5. - 8. :	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2	
3. - 5. :	0	0	0	22	24	18	22	4	4	1	13	8	0	0	0	121	
1. - 3. :	1	3	71	90	43	8	10	6	8	3	23	22	8	5	0	312	
LT 1. :	0	3	43	41	23	6	3	6	9	6	13	9	7	5	0	200	
TOTAL :	1	6	121	153	91	33	41	16	21	10	49	39	15	10	0	635	
PERCENT :	1.	1.	19.	24.	14.	5.	6.	3.	3.	2.	8.	6.	2.	2.	0.	100.	

0 = 0 OBSERVATIONS

(01/11/62-REF)

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

C-B SHALE OIL PROJECT

10 METER LEVEL

STATION AA23 PERIOD(10/01/81 TO 10/31/81)

WIND SPEED MAX METERS/SEC		WIND DIRECTION																NNW	NW	VAR	TOTAL
		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW				
GT 11.	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
8. - 11.	0	0	0	0	0	0	0	0	0	6	11	1	0	0	0	0	0	0	0	0	18
5. - 8.	0	0	0	0	0	0	0	0	0	14	39	11	0	0	2	0	0	0	0	0	66
3. - 5.	0	0	0	0	0	0	0	2	8	27	46	32	6	4	11	4	1	0	0	0	141
1. - 3.	8	4	3	5	13	29	27	27	22	27	27	48	22	9	9	26	17	0	0	0	296
LT 1.	8	9	5	7	9	10	13	9	9	18	20	27	11	7	4	23	9	0	0	0	189
TOTAL	16	13	8	12	22	39	42	39	39	93	143	119	39	20	26	53	27	0	0	0	711
PERCENT	2.	2.	1.	2.	3.	5.	6.	5.	5.	13.	20.	17.	5.	3.	4.	7.	4.	0.	0.	0.	100.

0 = NO OBSERVATIONS

(01/11/82-RP1)

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

C-B SHALE OIL PROJECT

30 METER LEVEL

STATION AA23 PERIOD(10/01/81 TO 10/31/81)

WIND SPEED MAX. METERS/SEC	WIND DIRECTION															TOTAL
	N	NE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	
0	0	0	0	0	0	0	12	3	0	0	0	0	0	0	0	15
1	0	0	0	0	0	0	22	21	3	0	2	0	0	0	0	48
2	0	0	0	0	0	14	33	43	15	2	2	3	0	0	0	112
3	0	0	2	3	5	7	14	26	33	27	7	11	7	9	0	158
4	13	11	4	11	24	33	15	20	20	9	22	11	14	14	0	238
5	6	11	12	12	7	6	10	10	10	6	9	7	5	8	0	140
TOTAL	19	22	18	26	36	46	53	118	130	75	24	32	26	31	0	711
PERCENT	3.	2.	3.	4.	5.	6.	7.	17.	18.	11.	3.	5.	4.	4.	0.	100.

0 = NO OBSERVATIONS

(01/11/82-221)

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

C-B SHALE OIL PROJECT

60 METER LEVEL

STATION AA23 PERIOD(10/01/81 TO 10/31/81)

WIND SPEED MAX. METERS/SEC	4	ONE	NE	ENE	E	ESE	SE	SSE	WIND DIRECTION					WSW	W	WNW	NW	NNW	VAR	TOTAL
									S	SSW	SW	WSW								
GT 11. :	0	0	0	0	0	0	0	0	7	7	0	0	0	0	0	0	0	0	14	
8. - 11. :	0	0	0	0	0	0	0	0	7	24	11	0	0	0	0	0	0	0	42	
5. - 8. :	0	0	0	0	0	0	0	6	17	20	25	4	0	1	1	0	0	0	74	
3. - 5. :	3	1	0	0	1	4	8	6	9	17	18	13	3	10	3	5	0	0	101	
1. - 3. :	5	10	5	3	1	8	10	7	10	10	6	9	11	14	11	19	0	0	146	
LT 1. :	2	14	7	1	3	3	3	4	2	1	3	3	5	8	2	1	0	0	62	
TOTAL :	10	31	13	4	5	15	21	23	52	79	63	29	19	33	17	25	0	0	439	
PERCENT	2.	7.	3.	1.	1.	3.	5.	5.	12.	18.	14.	7.	4.	8.	4.	6.	0.	0.	100.	

0 = NO OBSERVATIONS

(01/11/82-REP)

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

10 METER LEVEL

C-B SHALE OIL PROJECT

STATION AD42 PERIOD (10/01/81 - 10/31/81)

Refer to pages _____ through _____

Mechanical Recordering Instrument was removed and replaced by an R.A. solar powered data acquisition system installed July 25, 1981. Monitoring of data and maintenance of the instrumentation was contracted to WestAq Corp. upon purchase of the equipment.

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

10 METER LEVEL

C-B SHALE OIL PROJECT

STATION AD56 PERIOD (10/01/81 - 10/31/81)

DATA NOT AVAILABLE AT REPORT TIME

COMPONENT	AVG. TIME	RANK	DAY	HOUR (BEG)	VALUE
SO2	3 HR	1	28	10	7.9
		2	27	15	7.0
		3	30	14	7.0
		4	12	11	6.1
		5	19	9	6.1
SO2	24 HR	1	1	8	5.2
		2	2	24	5.2
		3	3	24	5.2
		4	6	20	5.1
		5	17	1	5.1
CO	1 HR	1	13	10	1300.0
		2	13	7	1100.0
		3	13	9	1100.0
		4	13	11	1100.0
		5	2	6	1000.0
CO	8 HR	1	13	5	1100.0
		2	23	3	1000.0
		3	2	1	900.0
		4	15	4	900.0
		5	22	19	800.0
O3	1 HR	1	27	14	98.1
		2	27	15	98.1
		3	27	13	96.1
		4	27	16	94.2
		5	27	12	92.2
PART	24 HR	1	21	1	4.2
		2	24	1	4.1
		3	15	1	4.1
		4	27	1	4.1
		5	30	1	4.1

COMPONENT	AVG. TIME	RANK	DAY	HOUR (BEG)	VALUE
SO2	3 HR	1	27	15	17.5
		2	28	7	14.0
		3	27	18	13.1
		4	27	12	10.5
		5	1	6	9.6
SO2	24 HR	1	27	10	10.5
		2	1	3	2.9
		3	7	3	1.7
		4	25	20	1.7
		5	23	5	0.9
CO	1 HR	1	8	20	600.0
		2	6	10	500.0
		3	8	11	500.0
		4	8	12	500.0
		5	8	13	500.0
CO	8 HR	1	8	13	500.0
		2	16	11	300.0
		3	8	21	300.0
		4	11	7	300.0
		5	16	19	200.0
O3	1 HR	1	27	14	88.3
		2	10	12	86.3
		3	10	13	86.3
		4	27	15	86.3
		5	8	14	84.4
PART	24 HR	1	21	1	4.2
		2	18	1	4.1
		3	24	1	4.1
		4	6	1	4.1
		5	9	1	4.1

FIVE YEAR SLIDING AVERAGE
1977-1981

C-B TRACT
SITE AD56
OCT 1981
OCCIDENTAL OIL SHALE, INC.

COMPONENT PART	AVG. TIME 24 HR	RANK	DAY	HOUR (BEG)	VALUE
1	24	1	24	1	4.1
2	6	2	6	1	4.1
3	27	3	27	1	4.1
4	21	4	21	1	4.1
5	30	5	30	1	4.1

SOURCE OF DATA REPORTED
PERCENT

C-b TRACT
TRAILER AB20

OCCIDENTAL OIL SHALE, INC.

NO	NO _x	NO ₂	O ₃	CO	SO ₂
----	-----------------	-----------------	----------------	----	-----------------

MULTIPOINT
RECORDER *

DATA ACQUISITION
SYSTEM

100	100	100	100	90	100
-----	-----	-----	-----	----	-----

OTHER SYSTEMS

100	100	100	100	90	100
-----	-----	-----	-----	----	-----

EFFICIENCY

* Serves as Back-up to Data Acquisition System

SOURCE OF DATA REPORTED
PERCENT

C-b TRACT
TRAILER AB20
OCCIDENTAL OIL SHALE, INC.

WS WD SIGMA
HWD 10m

TEMP

INVERS.
HT

STB
50m

STB
200m

PART

PRECIP.

MULTIPOINT
RECORDER *

DATA ACQUISITION
SYSTEM

100 100 100 100

OTHER SYSTEMS

30 30 30 100 89

EFFICIENCY

100 100 100 30 30 100 89

* Serves as Back-up to Data Acquisition System

SOURCE OF DATA REPORTED
PERCENT

C-b TRACT
TRAILER AB23

OCCIDENTAL OIL SHALE, INC.

NO	NO _x	NO ₂	O ₃	SO ₂	H ₂ S	CO	BAR PRESS.	SOLAR RAD.
----	-----------------	-----------------	----------------	-----------------	------------------	----	---------------	---------------

MULTIPOINT
RECORDER *

DATA ACQUISITION
SYSTEM

97	97	97	98	98	0	97	98	98
----	----	----	----	----	---	----	----	----

OTHER SYSTEMS

EFFICIENCY

97	97	97	98	98	0	97	98	98
----	----	----	----	----	---	----	----	----

* Serves as Back-up to Data Acquisition System

SOURCE OF DATA REPORTED
PERCENT

C-bTRACT
TRAILER AB23

OCCIDENTAL OIL SHALE, INC.

SIGMA HWD 10m	SIGMA HWD 30m	SIGMA HWD 60m	WS 10m	WS 30m	WS 60m	WD 10m	WD 30m	WD 60m
------------------	------------------	------------------	-----------	-----------	-----------	-----------	-----------	-----------

MULTIPOINT
RECORDER *

DATA ACQUISITION
SYSTEM

98	98	63	98	98	63	98	98	63
----	----	----	----	----	----	----	----	----

OTHER SYSTEMS

EFFICIENCY

98	98	63	98	98	63	98	98	63
----	----	----	----	----	----	----	----	----

*Serves as Back-up to Data Acquisition System

SOURCE OF DATA REPORTED
PERCENT

C-b TRACT
TRAILER AB23

OCCIDENTAL OIL SHALE, INC.

	TMP 10m	TMP 30m	TMP 60m	DT 60-10m	RH	PART	PREC
--	------------	------------	------------	--------------	----	------	------

MULTIPOINT
RECORDER *

DATA ACQUISITION
SYSTEM

98	98	63	100				
----	----	----	-----	--	--	--	--

OTHER SYSTEMS

90	100	95					
----	-----	----	--	--	--	--	--

EFFICIENCY

98	98	63	100	90	100	95	
----	----	----	-----	----	-----	----	--

* Serves as Back-up to Data Acquisition System

SOURCE OF DATA REPORTED
PERCENT

C-b TRACT
SITE AD42

OCCIDENTAL OIL SHALE, INC.

	WS 10m	WD 10m	TMP 10m
OTHER SYSTEMS	100	100	100

EFFICIENCY	100	100	100
------------	-----	-----	-----

SOURCE OF DATA REPORTED
PERCENT

C-b TRACT
SITE AD56

OCCIDENTAL OIL SHALE, INC.

WS 10m	WD 10m	TMP 10m	PART
OTHER SYSTEMS			100
EFFICIENCY			100

DATA REPORT

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK, COLORADO

Met. Station #1
(AD42)

October 1981

PREPARED FOR:

Ed B. Baker
Project Environmental Coordinator
Occidental Oil Shale, Inc.
Star Route
Rifle, Colorado

PREPARED BY:

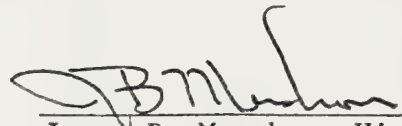
WestAq Corporation
Parachute, Colorado
(303) 285-7700

DATA CERTIFICATION STATEMENT

WESTAQ CORPORATION HEREBY CERTIFIES THAT ALL DATA PRESENTED IN THIS REPORT IS ACCURATE TO THE SPECIFICATIONS OF THE RECORDING INSTRUMENTATION. NO EDITING OR ALTERATION HAS BEEN PERFORMED OTHER THAN TO CORRECT OCCASIONAL COSMETIC DETAILS. ALL CALCULATIONS ARE DONE BY COMPUTER PROGRAM AND NOT SUBJECT TO OPERATOR ERRORS.

DUE TO THE NATURE OF THE DIGITAL ACQUISITION SYSTEM AND COMPUTER REDUCTION, MINIMUM POSSIBILITY EXISTS FOR CHART INTERPRETATIONS, MACHINE ENTRY AND CALCULATION ERRORS, OR ARBITRARY DATA ALTERATION.

FOR THE CORPORATION:

 10.31
James B. Mershon, Vice Pres.

SYSTEM PERFORMANCE

NO DATA LOSS OR ANY ERRORS DETECTED.

THIS PERIOD REPRESENTS 100% DATA RECORDING
AND RETRIEVAL.

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

WIND ROSE VALUES

~~~~~ NUMBER OF OCCURRENCES: ~~~~~

	<3	3-7	7-12	>12MPH	
N	10	4	0	0	(14)
N N E	7	7	0	0	(14)
N E	16	20	3	0	(39)
E N E	16	71	10	0	(97)
E	27	86	14	0	(127)
E S E	15	25	13	0	(53)
S E	5	17	15	0	(37)
S S E	5	12	9	15	(41)
S	3	9	19	28	(59)
S S W	5	15	21	22	(63)
S W	9	10	16	7	(42)
W S W	9	15	9	4	(37)
W	6	9	16	2	(33)
W N W	9	14	10	5	(38)
N W	8	13	3	3	(27)
N N W	7	10	5	1	(23)

(157)(337)(163)(87)

%%~ PERCENTAGES OF OCCURRENCES: ~%%

	<3	3-7	7-12	>12MPH	
N	1.3	0.5	0.0	0.0	(1.9)
N N E	0.9	0.9	0.0	0.0	(1.9)
N E	2.2	2.7	0.4	0.0	(5.2)
E N E	2.2	9.5	1.3	0.0	(13.0)
E	3.6	11.6	1.9	0.0	(17.1)
E S E	2.0	3.4	1.7	0.0	(7.1)
S E	0.7	2.3	2.0	0.0	(5.0)
S S E	0.7	1.6	1.2	2.0	(5.5)
S	0.4	1.2	2.6	3.8	(7.9)
S S W	0.7	2.0	2.8	3.0	(8.5)
S W	1.2	1.3	2.2	0.9	(5.6)
W S W	1.2	2.0	1.2	0.5	(5.0)
W	0.8	1.2	2.2	0.3	(4.4)
W N W	1.2	1.9	1.3	0.7	(5.1)
N W	1.1	1.7	0.4	0.4	(3.6)
N N W	0.9	1.3	0.7	0.1	(3.1)

(21.1)(45.3)(21.9)(11.7)

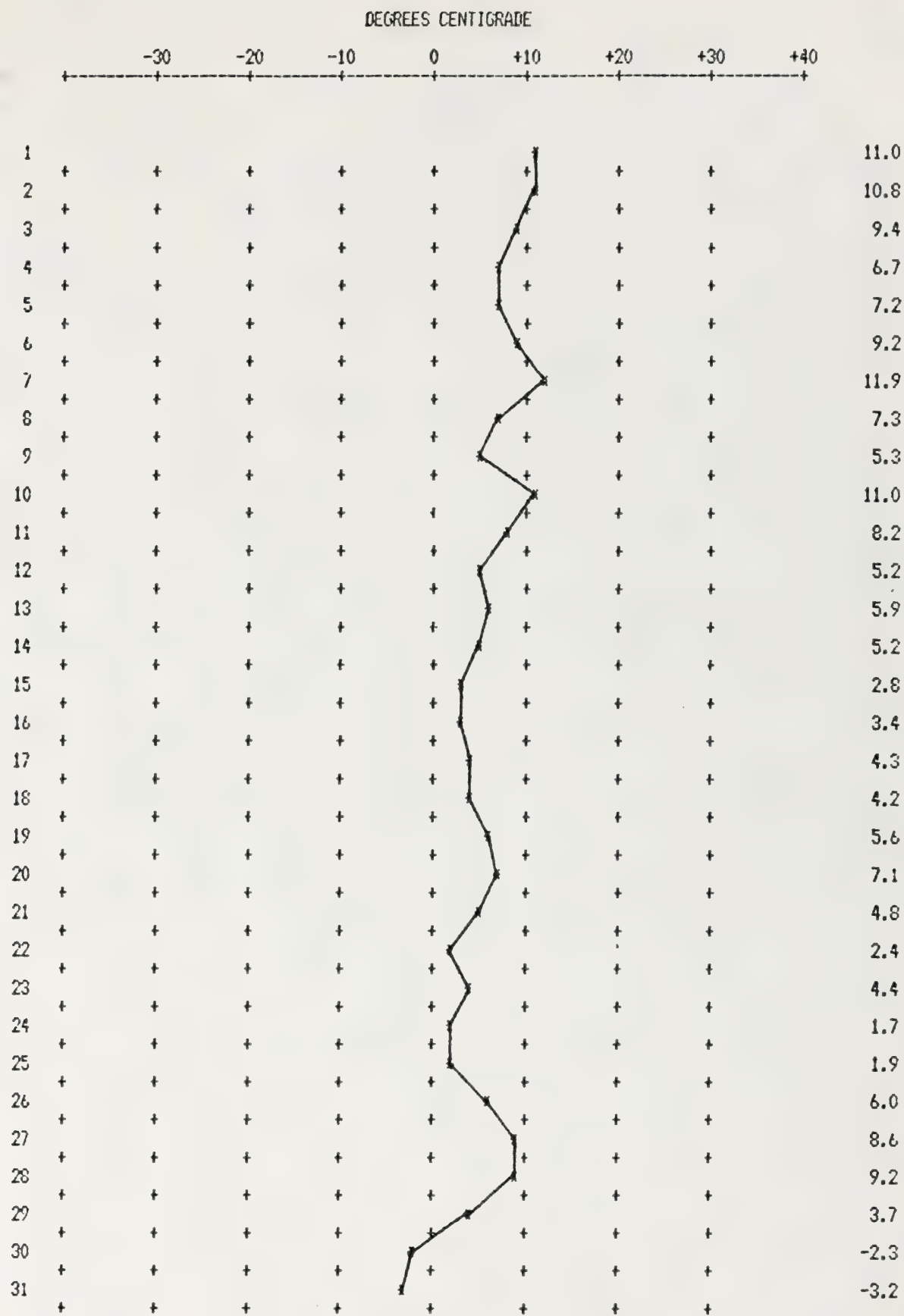
FROM 274 0 THRU 304 2300 FOR 744 SAMPLES IN OCTOBER 1981

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	5.2	112	3.1	0.01
100	5.1	126	2.9	0.01
200	4.9	128	2.4	0.01
300	4.5	126	2.3	0.01
400	5.8	130	2.3	0.01
500	5.2	126	2.0	0.01
600	5.4	142	1.9	0.01
700	4.6	110	2.2	0.08
800	5.2	120	4.2	0.27
900	6.6	160	6.7	0.42
1000	10.4	192	8.6	0.60
1100	9.3	223	9.9	0.66
1200	10.5	210	10.3	0.70
1300	9.2	212	10.6	0.62
1400	8.8	202	11.0	0.51
1500	9.1	226	10.5	0.38
1600	7.0	217	10.1	0.19
1700	6.4	198	8.9	0.05
1800	6.1	172	7.3	0.01
1900	4.4	164	6.0	0.01
2000	4.8	123	4.6	0.01
2100	6.3	139	4.0	0.01
2200	5.4	112	3.5	0.01
2300	5.1	145	3.0	0.01
MAX	32.2	356	23.1	1.38
MIN	0.2	0	-12.4	0.00
AVG	6.5	159	5.8	0.19
	MPH	DEG	CENT	LGly

-> -> -> -> -> -> -> MONTHLY AVERAGE FOR OCTOBER 1981



CB-1 TEMPERATURE PLOT

OCTOBER 1981

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	2.5	68	2.7	0.00
100	3.3	64	2.2	0.00
200	2.3	93	2.0	0.00
300	4.9	76	0.7	0.01
400	4.0	66	0.3	0.01
500	4.6	77	-0.1	0.01
600	5.2	72	-0.2	0.01
700	4.2	64	2.2	0.11
800	3.7	68	7.1	0.30
900	1.3	297	13.3	0.67
1000	2.7	324	15.4	0.95
1100	5.1	337	18.0	1.08
1200	4.6	288	20.7	1.11
1300	10.3	295	21.0	1.06
1400	8.0	285	22.7	0.92
1500	9.9	245	23.1	0.70
1600	10.1	267	22.1	0.42
1700	9.3	245	21.0	0.12
1800	5.6	217	18.3	0.00
1900	5.0	64	13.5	0.01
2000	2.8	87	12.4	0.01
2100	3.3	67	9.2	0.01
2200	4.4	101	8.4	0.00
2300	3.4	83	8.9	0.01
MAX	10.3	337	23.1	1.11
MIN	1.3	64	-0.2	0.00
AVG	5.0	160	11.0	0.31
	MPH	DEG	CENT	LGLY

1 OCT. 1981 (274)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	1.7	39	8.3	0.00
100	7.9	59	8.1	0.01
200	3.6	86	8.7	0.01
300	5.8	71	10.3	0.00
400	4.1	106	11.8	0.00
500	3.7	95	11.6	0.00
600	6.2	191	13.2	0.01
700	5.9	55	9.7	0.02
800	5.1	144	10.6	0.04
900	5.2	98	10.3	0.11
1000	10.9	99	11.8	0.38
1100	10.1	192	13.1	0.17
1200	7.5	176	14.2	0.36
1300	7.7	168	14.6	0.24
1400	8.7	170	12.9	0.12
1500	7.6	225	11.0	0.10
1600	2.7	245	10.8	0.05
1700	1.7	79	10.1	0.03
1800	9.6	128	10.1	0.01
1900	6.8	162	9.7	0.01
2000	8.8	129	9.7	0.00
2100	6.5	143	9.5	0.01
2200	6.4	99	9.1	0.00
2300	2.7	292	9.1	0.00
MAX	10.9	292	14.6	0.38
MIN	1.7	39	8.1	0.00
AVG	6.1	135	10.8	0.07
	MPH	DEG	CENT	LGLY

2 OCT. 1981 (275)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	8.5	116	9.4	0.00
100	4.4	126	9.4	0.00
200	1.3	179	9.3	0.00
300	5.5	198	7.9	0.01
400	1.5	77	6.9	0.00
500	1.0	81	6.7	0.00
600	3.4	120	6.5	0.00
700	3.5	90	6.5	0.01
800	4.8	42	6.5	0.03
900	4.2	69	7.5	0.08
1000	8.0	225	8.8	0.17
1100	12.8	206	9.4	0.13
1200	15.5	219	11.8	1.13
1300	12.5	194	11.4	0.32
1400	12.4	183	12.8	0.85
1500	21.6	198	12.7	0.79
1600	20.7	207	11.9	0.25
1700	19.4	165	12.0	0.11
1800	13.6	186	10.4	0.00
1900	4.8	346	10.3	0.01
2000	5.5	204	9.9	0.01
2100	2.9	214	9.3	0.01
2200	4.4	91	9.6	0.01
2300	7.4	140	9.7	0.01
MAX	21.6	346	12.8	1.13
MIN	1.0	42	6.5	0.00
AVG	8.3	162	9.4	0.16
	MPH	DEG	CENT	LGLY

3 OCT. 1981 (276)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	5.2	161	9.9	0.01
100	13.2	174	9.1	0.01
200	5.6	150	7.6	0.01
300	2.1	354	7.3	0.01
400	3.0	59	7.4	0.01
500	3.2	129	8.4	0.01
600	3.4	219	8.0	0.01
700	5.5	96	7.2	0.01
800	0.2	281	7.3	0.03
900	7.0	203	8.2	0.22
1000	4.7	244	8.7	0.14
1100	4.4	317	6.6	0.37
1200	5.8	198	9.3	0.13
1300	6.8	244	7.4	0.16
1400	8.4	175	9.2	0.21
1500	6.7	301	4.4	0.09
1600	5.4	100	4.7	0.05
1700	5.8	94	4.9	0.04
1800	16.9	316	4.7	0.00
1900	0.6	128	4.1	0.00
2000	1.7	128	4.3	0.00
2100	15.5	285	4.0	0.00
2200	3.8	133	3.7	0.00
2300	3.9	300	3.5	0.00
MAX	16.9	354	9.9	0.37
MIN	0.2	59	3.5	0.00
AVG	5.8	200	6.7	0.06
	MPH	DEG	CENT	LGLY

4 OCT. 1981 (277)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	10.5	128	3.5	0.00
100	5.4	84	3.3	0.00
200	7.6	117	3.9	0.00
300	1.9	56	4.4	0.01
400	7.5	135	4.5	0.01
500	6.4	84	4.5	0.01
600	6.4	85	4.7	0.01
700	1.6	117	5.6	0.05
800	2.8	122	5.8	0.19
900	5.3	174	7.5	0.22
1000	3.1	169	12.0	1.15
1100	11.0	196	13.1	1.15
1200	8.1	299	11.8	0.30
1300	5.9	311	9.5	0.12
1400	4.9	305	11.4	0.11
1500	3.9	256	11.3	0.09
1600	2.7	64	11.6	0.12
1700	5.2	101	10.9	0.04
1800	3.9	76	9.6	0.01
1900	3.2	71	7.9	0.01
2000	3.9	99	5.1	0.01
2100	6.6	99	4.7	0.01
2200	2.6	99	3.3	0.01
2300	4.2	86	3.0	0.01
MAX	11.0	311	13.1	1.15
MIN	1.6	56	3.0	0.00
AVG	5.2	140	7.2	0.15
	MPH	DEG	CENT	LGly

5 OCT. '81 (278)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	3.6	86	2.1	0.01
100	5.1	78	2.0	0.01
200	4.9	101	2.1	0.01
300	4.7	83	1.7	0.01
400	6.0	63	1.5	0.01
500	3.9	109	2.2	0.01
600	2.8	77	0.9	0.01
700	3.6	63	3.4	0.16
800	4.5	66	7.1	0.46
900	4.2	44	11.1	0.69
1000	7.3	47	14.2	0.83
1100	1.8	233	17.3	0.95
1200	10.1	184	17.1	0.87
1300	6.4	212	17.5	0.83
1400	4.1	232	16.7	0.20
1500	10.3	215	18.4	0.75
1600	5.9	195	17.1	0.06
1700	8.0	231	16.6	0.08
1800	8.9	204	13.8	0.00
1900	7.4	195	11.9	0.01
2000	2.9	71	8.7	0.01
2100	4.6	95	6.7	0.01
2200	5.4	52	5.2	0.01
2300	4.4	97	5.8	0.01
MAX	10.3	233	18.4	0.95
MIN	1.8	44	0.9	0.00
AVG	5.5	126	9.2	0.25
	MPH	DEG	CENT	LGLY

6 OCT. '81 (279)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	5.7	95	4.7	0.00
100	5.0	81	4.9	0.00
200	6.2	90	4.3	0.01
300	4.7	81	4.5	0.00
400	7.3	102	5.0	0.00
500	6.1	79	4.9	0.01
600	6.1	78	4.2	0.01
700	6.1	99	6.1	0.15
800	16.9	177	13.7	0.46
900	12.9	180	14.4	0.28
1000	9.5	193	15.9	0.53
1100	9.7	205	16.9	0.62
1200	20.5	192	17.4	0.86
1300	17.4	207	18.6	1.19
1400	14.7	207	17.6	0.45
1500	12.7	176	17.7	0.26
1600	14.5	165	18.4	0.36
1700	13.4	176	17.2	0.13
1800	4.7	80	14.7	0.00
1900	7.3	163	12.9	0.01
2000	6.8	101	12.4	0.01
2100	17.1	166	13.1	0.01
2200	15.8	162	13.3	0.01
2300	9.4	129	13.4	0.01
MAX	20.5	207	18.6	1.19
MIN	4.7	78	4.2	0.00
AVG	10.4	141	11.9	0.22
	MPH	DEG	CENT	LG/LY

7 OCT. 1981 (280)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	9.5	128	13.0	0.01
100	9.3	129	13.6	0.01
200	11.3	201	8.9	0.00
300	7.3	199	10.1	0.01
400	6.7	126	8.7	0.01
500	4.3	229	7.8	0.01
600	10.4	330	8.1	0.01
700	8.9	227	6.7	0.01
800	10.4	140	6.4	0.04
900	21.3	235	6.5	0.03
1000	21.3	276	7.1	0.11
1100	1.5	96	6.8	0.12
1200	3.2	89	6.6	0.03
1300	6.0	254	6.8	0.38
1400	6.2	82	3.1	0.12
1500	5.3	43	3.0	0.35
1600	2.1	334	6.7	0.14
1700	3.5	139	6.5	0.01
1800	6.2	343	5.7	0.01
1900	3.9	245	4.9	0.01
2000	3.5	248	4.6	0.01
2100	3.5	246	4.3	0.01
2200	3.7	239	4.2	0.01
2300	1.9	270	4.3	0.01
MAX	21.3	343	13.6	0.38
MIN	1.5	43	4.2	0.00
AVG	7.1	204	7.3	0.06
	MPH	DEG	CENT	LGly

8 OCT. '81 (231)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	2.6	248	3.8	0.01
100	1.8	24	2.9	0.00
200	2.0	41	1.8	0.00
300	3.3	58	1.0	0.00
400	3.2	70	1.2	0.00
500	2.6	91	1.4	0.00
600	2.6	126	1.2	0.00
700	2.5	101	1.5	0.10
800	2.2	50	3.3	0.39
900	1.6	284	5.4	0.70
1000	1.9	247	7.5	0.87
1100	1.6	345	8.4	0.73
1200	5.0	132	8.5	0.66
1300	4.4	210	10.5	0.55
1400	9.3	200	10.7	0.44
1500	10.5	266	11.1	0.54
1600	7.4	281	11.4	0.41
1700	2.1	272	9.8	0.07
1800	6.3	216	8.3	0.01
1900	8.2	141	6.5	0.01
2000	4.4	92	3.7	0.01
2100	7.1	82	3.1	0.01
2200	3.8	54	2.1	0.00
2300	7.1	78	1.9	0.00
MAX	10.5	345	11.4	0.87
MIN	1.6	24	1.0	0.00
AVG	4.3	155	5.3	0.23
	MPH	DEG	CENT	LG/LY

9 OCT. '81 (282)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	5.0	69	1.2	0.00
100	2.5	48	2.5	0.00
200	6.7	63	4.2	0.01
300	2.4	68	5.9	0.01
400	6.7	125	7.2	0.01
500	5.0	95	6.9	0.01
600	6.1	50	6.6	0.01
700	7.9	161	8.6	0.07
800	2.8	23	8.2	0.13
900	15.2	167	13.0	0.51
1000	16.3	169	12.6	0.26
1100	11.7	157	15.4	1.38
1200	21.6	186	15.3	0.93
1300	11.0	177	16.0	0.67
1400	8.7	218	16.4	0.64
1500	16.7	168	16.0	0.28
1600	10.4	158	15.6	0.17
1700	8.5	205	14.9	0.06
1800	6.0	172	13.5	0.00
1900	3.1	92	12.7	0.01
2000	7.5	107	13.1	0.01
2100	7.2	92	12.6	0.01
2200	9.6	89	13.0	0.01
2300	3.4	119	12.5	0.01
MAX	21.6	218	16.4	1.38
MIN	2.4	23	1.2	0.00
AVG	8.6	124	11.0	0.22
	MPH	DEG	CENT	LG LY

10 OCT. '81 (283)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	3.4	126	12.8	0.01
100	7.3	145	12.8	0.01
200	4.9	154	12.6	0.01
300	3.7	28	12.2	0.01
400	18.3	167	12.6	0.01
500	27.8	154	12.3	0.01
600	20.9	147	10.9	0.01
700	14.6	178	11.6	0.05
800	20.3	169	9.9	0.10
900	15.1	192	12.0	0.13
1000	23.3	192	13.6	0.71
1100	22.3	198	13.3	0.46
1200	18.8	195	12.0	0.19
1300	17.0	184	8.8	0.09
1400	7.8	237	7.6	0.04
1500	7.7	285	2.2	0.05
1600	7.5	72	1.8	0.11
1700	8.2	113	2.8	0.06
1800	7.8	97	2.8	0.01
1900	3.0	136	2.5	0.01
2000	6.5	85	1.9	0.01
2100	3.5	199	2.6	0.01
2200	4.8	192	3.3	0.01
2300	8.0	110	2.2	0.01
MAX	27.8	285	13.6	0.71
MIN	3.0	28	1.8	0.01
AVG	11.8	156	8.2	0.09
	MPH	DEG	CENT	LGLY

11 OCT. 1981 (284)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	6.1	96	2.1	0.01
100	3.5	342	2.3	0.01
200	3.6	91	1.7	0.01
300	5.9	106	1.8	0.01
400	15.4	287	2.0	0.01
500	3.8	106	1.3	0.01
600	2.2	170	1.4	0.01
700	4.5	117	0.9	0.05
800	2.6	316	1.7	0.13
900	3.8	293	2.3	0.31
1000	16.8	190	8.3	0.48
1100	11.9	177	9.5	0.73
1200	9.8	248	7.4	0.90
1300	14.0	177	10.0	0.26
1400	15.4	239	11.2	0.93
1500	12.0	180	10.4	0.65
1600	5.7	187	11.2	0.43
1700	10.8	130	8.6	0.05
1800	10.6	151	7.9	0.01
1900	4.5	133	6.6	0.01
2000	2.9	74	5.7	0.01
2100	2.6	285	4.4	0.01
2200	4.1	195	3.9	0.01
2300	7.8	119	3.3	0.01
MAX	16.8	342	11.2	0.93
MIN	2.2	74	0.9	0.01
AVG	7.5	184	5.2	0.21
	MPH	DEG	CENT	LG/LY

12 OCT. '81 (285)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	2.2	107	2.5	0.01
100	2.7	153	1.8	0.01
200	5.3	76	1.7	0.01
300	2.3	239	0.8	0.01
400	5.8	114	1.4	0.01
500	7.6	113	2.7	0.01
600	2.1	330	0.9	0.01
700	4.4	98	2.0	0.15
800	1.2	37	4.0	0.17
900	2.6	167	6.0	0.22
1000	29.8	199	9.4	1.05
1100	20.3	187	10.3	0.43
1200	8.0	243	9.5	0.30
1300	12.3	201	12.4	1.01
1400	16.0	232	11.8	0.43
1500	8.2	218	11.2	0.27
1600	6.9	209	10.7	0.19
1700	4.1	214	9.7	0.09
1800	4.5	249	8.6	0.01
1900	7.7	238	7.4	0.01
2000	8.7	227	6.1	0.01
2100	13.1	210	4.2	0.01
2200	2.0	206	3.4	0.01
2300	6.6	311	3.2	0.01
MAX	29.8	330	12.4	1.05
MIN	1.2	37	0.8	0.01
AVG	7.7	191	5.9	0.19
	MPH	DEG	CENT	LG/LY

13 OCT. 1981 (286)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	0.8	43	2.7	0.01
100	1.5	102	3.0	0.01
200	2.2	353	3.0	0.01
300	5.2	233	2.1	0.01
400	1.7	227	1.9	0.01
500	6.0	297	1.3	0.01
600	1.5	223	1.8	0.01
700	5.5	101	2.1	0.08
800	4.8	186	4.7	0.58
900	4.6	152	6.1	0.67
1000	10.9	222	7.3	0.94
1100	13.0	214	7.1	0.34
1200	16.2	170	10.0	1.36
1300	9.9	225	10.8	1.27
1400	16.6	205	10.5	0.92
1500	10.4	259	10.6	0.69
1600	7.0	322	9.2	0.29
1700	7.5	293	7.5	0.05
1800	4.3	321	6.2	0.01
1900	2.8	263	5.4	0.01
2000	0.2	25	3.5	0.01
2100	1.1	340	2.8	0.01
2200	3.0	66	2.1	0.01
2300	1.9	356	2.1	0.01
MAX	16.6	356	10.8	1.36
MIN	0.2	25	1.3	0.01
AVG	5.8	217	5.2	0.31
	MPH	DEG	CENT	LGLY

14 OCT. '81 (287)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	3.3	28	1.9	0.01
100	3.0	91	1.6	0.01
200	2.2	88	1.1	0.01
300	2.2	287	1.0	0.00
400	0.7	354	0.2	0.00
500	5.5	83	0.2	0.01
600	1.7	272	0.8	0.01
700	3.1	93	0.4	0.02
800	1.8	107	1.3	0.05
900	1.7	3	2.0	0.29
1000	5.8	302	3.5	0.34
1100	9.5	260	4.0	0.11
1200	10.9	275	4.1	0.49
1300	11.6	278	4.2	0.12
1400	7.4	264	4.4	0.16
1500	11.7	263	4.6	0.03
1600	5.7	224	4.7	0.09
1700	1.5	236	4.7	0.04
1800	0.9	211	4.6	0.01
1900	3.3	168	4.6	0.01
2000	6.4	272	4.2	0.01
2100	4.7	90	3.6	0.01
2200	10.0	87	2.8	0.00
2300	3.2	109	3.2	0.00
MAX	11.7	354	4.7	0.49
MIN	0.7	3	0.2	0.00
AVG	4.9	185	2.8	0.08
	MPH	DEG	CENT	LGLY

15 OCT. '81 (288)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	7.1	73	3.6	0.00
100	6.2	141	3.7	0.01
200	11.4	143	3.5	0.01
300	13.4	156	2.8	0.01
400	16.0	168	3.0	0.01
500	3.9	318	0.0	0.00
600	7.4	197	1.9	0.01
700	2.4	104	2.1	0.11
800	12.3	151	3.9	0.50
900	14.7	210	3.2	0.14
1000	10.2	159	3.6	0.28
1100	11.5	187	6.0	1.23
1200	12.0	206	5.6	0.60
1300	21.9	185	6.5	1.08
1400	9.5	213	5.6	0.29
1500	9.7	216	4.9	0.27
1600	4.3	232	4.5	0.13
1700	7.4	217	4.0	0.06
1800	4.8	167	3.0	0.01
1900	4.4	248	2.5	0.01
2000	2.0	207	1.9	0.01
2100	5.4	147	1.9	0.01
2200	2.3	103	1.2	0.01
2300	4.6	195	2.0	0.01
MAX	21.9	318	6.5	1.23
MIN	2.0	73	0.0	0.00
AVG	8.5	181	3.4	0.20
	MPH	DEG	CENT	LGLY

16 OCT. '81 (289)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	7.2	194	2.2	0.01
100	3.7	224	2.1	0.01
200	0.2	199	0.7	0.01
300	2.2	84	0.1	0.01
400	2.3	108	0.2	0.01
500	2.3	102	0.4	0.01
600	3.4	100	0.6	0.01
700	2.6	96	0.9	0.04
800	2.5	32	1.9	0.14
900	3.2	76	4.5	0.74
1000	3.0	173	5.4	0.42
1100	2.2	350	7.7	0.87
1200	3.7	107	7.8	0.82
1300	5.0	347	7.4	0.38
1400	3.7	41	7.8	0.18
1500	1.7	10	8.4	0.23
1600	1.2	33	8.3	0.16
1700	1.7	316	7.8	0.04
1800	0.6	343	7.0	0.01
1900	0.3	339	5.6	0.01
2000	2.4	51	4.3	0.01
2100	0.2	44	4.1	0.01
2200	0.2	41	3.8	0.01
2300	2.7	314	4.4	0.01
MAX	7.2	350	8.4	0.87
MIN	0.2	10	0.1	0.01
AVG	2.4	155	4.3	0.17
	MPH	DEG	CENT	LG/LY

17 OCT. '81 (290)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	4.1	292	3.4	0.01
100	3.3	275	2.6	0.01
200	6.1	252	2.4	0.01
300	3.4	48	-0.6	0.01
400	2.8	91	-0.9	0.01
500	1.3	246	-1.7	0.01
600	2.8	111	-2.3	0.01
700	3.6	85	-1.1	0.12
800	4.0	80	1.6	0.39
900	3.1	79	5.0	0.62
1000	4.2	328	7.1	0.81
1100	3.0	271	8.1	0.96
1200	3.6	245	9.5	0.98
1300	10.9	273	9.8	0.93
1400	7.5	295	10.4	0.78
1500	6.9	280	11.0	0.56
1600	3.5	294	10.9	0.26
1700	4.2	286	9.7	0.03
1800	0.4	238	7.5	0.01
1900	2.4	166	6.4	0.01
2000	3.0	58	1.2	0.01
2100	5.2	97	1.4	0.01
2200	4.7	63	-0.9	0.01
2300	7.0	83	-0.8	0.01
MAX	10.9	328	11.0	0.98
MIN	0.4	48	-2.3	0.01
AVG	4.2	189	4.2	0.27
	MPH	DEG	CENT	LGly

18 OCT. '81 (291)

CATHEDRAL BLUFFS SHALE OIL COMPANY
 PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	3.3	80	-1.7	0.01
100	3.2	63	-1.4	0.01
200	4.4	74	-2.4	0.01
300	1.4	64	-2.7	0.01
400	6.0	72	-3.2	0.01
500	5.2	78	-3.1	0.01
600	4.5	120	-1.1	0.01
700	3.0	65	-0.7	0.14
800	3.6	72	1.6	0.42
900	3.1	77	6.7	0.64
1000	2.8	41	10.3	0.85
1100	4.1	317	12.3	0.97
1200	3.9	5	13.0	1.00
1300	3.7	2	14.2	0.92
1400	3.3	322	14.9	0.78
1500	3.8	323	15.1	0.56
1600	4.1	273	14.9	0.24
1700	9.6	210	12.6	0.03
1800	3.5	15	9.1	0.01
1900	4.9	80	7.3	0.01
2000	6.4	111	6.0	0.01
2100	6.9	78	4.9	0.01
2200	5.2	102	3.8	0.01
2300	5.5	71	3.2	0.01
MAX	9.6	323	15.1	1.00
MIN	1.4	2	-3.2	0.01
AVG	4.4	113	5.6	0.28
	MPH	DEG	CENT	LGLY

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	4.4	92	2.3	0.01
100	5.4	93	2.4	0.01
200	5.0	75	1.0	0.01
300	4.9	90	1.6	0.01
400	5.8	75	1.1	0.01
500	6.7	90	1.0	0.01
600	5.7	82	0.5	0.01
700	5.2	91	0.7	0.10
800	4.3	59	4.5	0.24
900	4.4	71	9.6	0.64
1000	9.0	198	12.3	0.85
1100	4.8	194	14.0	0.96
1200	9.4	192	13.7	0.94
1300	10.2	182	14.8	0.91
1400	8.9	189	14.6	0.76
1500	10.5	219	14.9	0.55
1600	10.5	216	14.4	0.24
1700	9.0	207	12.3	0.04
1800	12.8	184	9.2	0.01
1900	4.9	64	7.4	0.01
2000	3.9	34	6.1	0.01
2100	5.9	75	5.8	0.01
2200	5.0	125	4.6	0.01
2300	4.4	62	1.7	0.01
MAX	12.8	219	14.9	0.96
MIN	3.9	34	0.5	0.01
AVG	6.7	123	7.1	0.27
	MPH	DEG	CENT	LGly

20 OCT. 1981 (293)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	4.6	51	1.5	0.01
100	5.8	80	0.7	0.01
200	3.9	60	-0.5	0.01
300	4.2	83	-0.6	0.01
400	1.3	86	-0.5	0.01
500	0.2	57	-1.9	0.01
600	4.4	79	-2.1	0.01
700	2.3	70	-1.9	0.10
800	2.1	78	1.6	0.37
900	1.2	340	5.7	0.63
1000	3.7	298	8.3	0.83
1100	6.6	320	11.6	0.74
1200	13.0	325	12.4	0.69
1300	10.6	308	12.3	0.70
1400	11.1	286	13.5	0.76
1500	7.9	333	13.2	0.53
1600	10.8	271	12.9	0.23
1700	10.9	280	11.2	0.04
1800	4.7	53	7.5	0.01
1900	3.0	249	5.4	0.01
2000	2.2	291	3.9	0.01
2100	2.7	68	1.7	0.01
2200	3.3	65	-0.5	0.01
2300	3.8	97	-1.0	0.01
MAX	13.0	340	13.5	0.83
MIN	0.2	51	-2.1	0.01
AVG	5.2	176	4.8	0.24
	MPH	DEG	CENT	LGLY

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	4.3	81	-1.5	0.01
100	3.9	97	-2.2	0.01
200	4.2	87	-2.9	0.01
300	3.3	103	-3.5	0.01
400	3.9	100	-3.3	0.01
500	4.0	86	-3.9	0.01
600	1.6	5	-3.5	0.01
700	3.0	83	-3.7	0.16
800	2.6	85	-0.3	0.47
900	4.2	245	4.5	0.63
1000	2.8	244	6.5	0.74
1100	7.8	330	8.1	0.94
1200	7.2	292	9.0	0.97
1300	2.0	85	11.0	0.90
1400	2.5	99	11.1	0.74
1500	3.7	340	10.3	0.52
1600	5.2	333	10.3	0.22
1700	3.7	354	9.3	0.04
1800	1.8	92	5.1	0.01
1900	1.6	73	0.8	0.01
2000	3.3	35	-0.1	0.01
2100	4.5	74	-0.6	0.01
2200	3.4	71	-1.5	0.01
2300	3.1	78	-2.0	0.01
MAX	7.8	354	11.1	0.97
MIN	1.6	5	-3.9	0.01
AVG	3.7	145	2.4	0.27
	MPH	DEG	CENT	LG/LY

22 OCT. '81 (295)

CATHEDRAL BLUFFS SHALE OIL COMPANY
 PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	3.4	70	-2.6	0.01
100	3.6	77	-3.2	0.01
200	5.2	72	-3.3	0.01
300	3.8	62	-3.7	0.01
400	3.0	89	-4.0	0.01
500	1.8	92	-4.8	0.01
600	5.6	84	-5.0	0.01
700	5.0	60	-3.8	0.09
800	3.6	78	0.7	0.36
900	3.2	35	5.5	0.63
1000	4.8	44	8.9	0.82
1100	3.2	27	12.9	0.93
1200	1.5	307	14.0	0.96
1300	11.0	334	13.0	0.89
1400	12.6	269	13.7	0.75
1500	10.6	243	14.4	0.45
1600	15.3	284	12.3	0.17
1700	4.0	282	11.2	0.02
1800	4.1	274	9.0	0.01
1900	3.0	40	8.1	0.01
2000	3.4	85	5.6	0.00
2100	1.1	76	3.2	0.01
2200	3.5	107	2.2	0.01
2300	6.1	64	0.7	0.01
MAX	15.3	334	14.4	0.96
MIN	1.1	27	-5.0	0.00
AVG	5.1	131	4.4	0.26
	MPH	DEG	CENT	LGly

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	5.5	83	1.5	0.01
100	3.8	81	0.5	0.00
200	4.2	86	1.4	0.01
300	5.8	69	1.8	0.01
400	3.6	78	1.7	0.01
500	2.0	72	1.8	0.01
600	4.2	76	1.2	0.01
700	2.7	83	2.0	0.03
800	3.6	96	2.6	0.06
900	3.2	76	4.2	0.19
1000	20.3	258	6.7	0.13
1100	20.5	293	5.4	0.19
1200	18.2	250	4.8	0.12
1300	8.5	185	2.8	0.15
1400	2.1	136	1.9	0.13
1500	1.3	281	0.4	0.07
1600	2.3	218	0.3	0.05
1700	4.1	14	0.1	0.01
1800	1.3	27	0.1	0.00
1900	2.7	312	0.5	0.00
2000	7.0	280	0.0	0.00
2100	8.2	269	-0.5	0.00
2200	7.7	295	-0.7	0.00
2300	6.5	284	-0.8	0.00
MAX	20.5	312	6.7	0.19
MIN	1.3	14	-0.8	0.00
AVG	6.2	163	1.7	0.05
	MPH	DEG	CENT	LG/LY

24 OCT. '81 (297)

CATHEDRAL BLUFFS SHALE OIL COMPANY
 PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	10.3	304	-1.0	0.01
100	4.3	245	-1.3	0.01
200	0.7	284	-1.1	0.01
300	4.6	352	-1.2	0.01
400	0.5	215	-1.8	0.01
500	1.7	80	-2.1	0.01
600	4.5	139	-2.2	0.01
700	1.2	68	-3.0	0.22
800	1.9	45	-1.2	0.58
900	2.6	35	0.3	0.85
1000	6.6	37	1.6	0.79
1100	1.4	130	4.6	0.82
1200	5.9	309	4.8	0.93
1300	4.8	270	7.4	0.80
1400	1.2	234	8.1	0.45
1500	4.4	151	8.5	0.50
1600	5.3	199	8.3	0.20
1700	8.3	180	6.5	0.03
1800	13.4	178	3.8	0.01
1900	7.3	185	3.5	0.01
2000	3.3	39	0.9	0.01
2100	6.8	84	0.8	0.01
2200	11.4	70	0.8	0.01
2300	8.6	96	1.3	0.01
MAX	13.4	352	8.5	0.93
MIN	0.5	35	-3.0	0.01
AVG	5.0	164	1.9	0.26
	MPH	DEG	CENT	LGLY

25 OCT. 1981 (298)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	6.0	81	0.2	0.01
100	6.5	76	-0.1	0.01
200	6.8	73	-0.5	0.01
300	7.6	81	-0.7	0.01
400	8.6	89	-0.8	0.01
500	5.1	86	-1.2	0.01
600	5.9	78	-0.2	0.01
700	7.1	68	0.2	0.08
800	5.8	53	3.6	0.31
900	11.1	199	8.4	0.61
1000	13.1	196	9.6	0.79
1100	16.2	182	11.4	0.91
1200	16.7	188	12.6	0.94
1300	8.5	192	13.8	0.86
1400	12.5	200	14.1	0.71
1500	11.6	166	14.4	0.45
1600	9.5	217	13.0	0.11
1700	4.7	194	11.8	0.02
1800	5.4	155	10.9	0.01
1900	8.3	108	7.3	0.01
2000	4.0	101	5.4	0.01
2100	5.6	73	3.4	0.01
2200	5.3	82	4.6	0.01
2300	2.5	115	2.3	0.01
MAX	16.7	217	14.4	0.94
MIN	2.5	53	-1.2	0.01
AVG	8.1	127	6.0	0.25
	MPH	DEG	CENT	LGLY

26 OCT. '81 (299)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	5.2	69	3.5	0.01
100	7.4	99	5.3	0.01
200	4.2	80	3.1	0.01
300	3.4	39	3.1	0.01
400	3.7	136	6.8	0.01
500	6.0	109	4.3	0.01
600	6.6	109	3.9	0.01
700	4.8	108	5.7	0.07
800	11.0	62	7.0	0.33
900	7.1	178	12.0	0.43
1000	11.7	164	12.7	0.39
1100	14.9	207	13.8	0.91
1200	10.3	188	14.6	0.92
1300	13.0	205	15.4	0.89
1400	24.4	237	15.1	0.60
1500	21.3	189	14.7	0.43
1600	10.4	191	14.0	0.22
1700	7.6	191	12.2	0.03
1800	7.8	108	9.7	0.01
1900	7.5	108	8.6	0.01
2000	9.5	67	4.0	0.01
2100	9.0	80	5.8	0.01
2200	9.9	54	5.7	0.01
2300	8.7	55	5.3	0.01
MAX	24.4	237	15.4	0.92
MIN	3.4	39	3.1	0.01
AVG	9.4	126	8.6	0.22
	MPH	DEG	CENT	LGly

27 OCT. '81 (300)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	6.5	115	7.9	0.01
100	8.6	125	7.8	0.01
200	8.0	81	5.7	0.01
300	6.9	116	8.5	0.01
400	9.6	71	8.5	0.01
500	7.6	77	7.8	0.01
600	8.1	80	6.4	0.01
700	3.1	59	7.9	0.07
800	2.5	256	9.3	0.25
900	16.8	187	12.0	0.29
1000	25.8	178	12.1	0.35
1100	26.4	175	11.5	0.36
1200	32.2	163	11.9	1.06
1300	5.6	205	10.6	0.32
1400	16.0	202	11.8	0.92
1500	19.0	153	11.0	0.49
1600	4.7	158	11.2	0.32
1700	7.5	138	8.7	0.03
1800	11.8	120	7.6	0.01
1900	6.4	102	8.1	0.01
2000	17.0	221	9.1	0.01
2100	20.7	167	9.3	0.01
2200	10.1	178	8.2	0.01
2300	6.4	96	7.1	0.01
MAX	32.2	256	12.1	1.06
MIN	2.5	59	5.7	0.01
AVG	12.0	143	9.2	0.19
	MPH	DEG	CENT	LGLY

28 OCT. '81 (301)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	11.3	175	7.4	0.01
100	11.5	175	7.2	0.01
200	16.1	184	6.9	0.01
300	5.3	102	5.5	0.01
400	6.4	130	5.9	0.01
500	4.9	188	7.3	0.01
600	11.3	241	5.9	0.01
700	2.7	313	4.1	0.04
800	11.1	232	8.7	0.35
900	14.2	226	5.1	0.23
1000	24.2	191	6.8	0.91
1100	13.0	225	6.3	0.11
1200	11.7	254	3.0	0.05
1300	6.6	165	2.1	0.06
1400	1.4	0	3.9	0.42
1500	4.7	313	2.8	0.22
1600	12.8	292	2.3	0.02
1700	6.6	32	0.0	0.01
1800	4.6	98	0.0	0.00
1900	4.8	146	-0.7	0.00
2000	6.5	71	-1.2	0.01
2100	9.5	212	0.0	0.01
2200	3.9	109	-0.1	0.01
2300	3.7	121	-0.7	0.01
MAX	24.2	313	8.7	0.91
MIN	1.4	0	-1.2	0.00
AVG	8.7	175	3.7	0.11
	MPH	DEG	CENT	LGLY

29 OCT. '81 (302)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	3.2	82	-1.1	0.01
100	2.2	285	-1.9	0.01
200	0.2	241	-2.1	0.01
300	5.3	273	-1.1	0.01
400	12.5	333	-2.1	0.01
500	12.9	320	-2.1	0.01
600	6.8	344	-2.6	0.01
700	8.5	339	-2.9	0.03
800	3.5	315	-2.8	0.08
900	4.4	303	-1.8	0.19
1000	7.0	268	-1.4	0.29
1100	5.9	284	-0.5	0.44
1200	5.9	273	0.5	0.49
1300	7.4	285	1.3	0.58
1400	8.5	281	0.5	0.51
1500	6.2	344	1.0	0.15
1600	1.9	320	0.7	0.08
1700	0.2	199	-0.9	0.01
1800	2.8	97	-2.1	0.00
1900	0.9	106	-4.0	0.00
2000	1.8	91	-5.8	0.01
2100	2.5	49	-7.0	0.00
2200	3.6	103	-7.5	0.01
2300	0.3	51	-9.2	0.01
MAX	12.9	344	1.3	0.58
MIN	0.2	49	-9.2	0.00
AVG	4.8	233	-2.3	0.12
	MPH	DEG	CENT	LGGLY

30 OCT. '81 (303)

CATHEDRAL BLUFFS SHALE OIL COMPANY
PICEANCE CREEK COLORADO

MET. STATION #1

TIME	W.S. 10 M	W.D. 10 M	TEMP 10 M	S.R. 10 M
0	2.7	79	-9.2	0.01
100	3.8	70	-10.3	0.01
200	1.9	79	-10.8	0.01
300	3.1	57	-11.1	0.01
400	2.0	98	-11.3	0.01
500	3.6	75	-12.4	0.01
600	4.1	62	-12.4	0.01
700	2.5	46	-12.2	0.14
800	4.2	91	-9.1	0.36
900	3.2	70	-3.2	0.52
1000	1.8	88	1.3	0.44
1100	1.5	113	5.4	0.37
1200	4.3	115	6.9	0.45
1300	2.5	6	5.6	0.48
1400	0.2	17	10.9	0.35
1500	2.5	154	6.9	0.26
1600	0.7	160	6.2	0.11
1700	0.2	300	2.8	0.02
1800	0.6	182	0.4	0.00
1900	1.6	227	-2.7	0.00
2000	0.8	116	-3.5	0.00
2100	2.8	114	-4.3	0.01
2200	3.2	24	-4.0	0.01
2300	2.4	100	-5.7	0.01
MAX	4.3	300	10.9	0.52
MIN	0.2	6	-12.4	0.00
AVG	2.3	102	-3.2	0.15
	MPH	DEG	CENT	LGly

31 OCT. '81 (304)

2.3.10 Data Corrections

This section contains cumulative cross-indexes for all quarterly and semi-annual data reports. Table 2.3.10-1 is a cross-index to corrections included in this report. Data correction tables that were presented in other quarterly and semi-annual data reports are listed on Table 2.3.10-2.

Table 2.3.10-1
Cross Index to Corrections Reported
In C-b Data Report #7

Semi Annual Report Containing Page Correction No.	Semi Annual Report Containing Incorrect Data		Station No.	Year	Month	Constituent Identification
		Page No.				
#6/II - 549	Development Monitoring Report #5 II-502		AA23	1980	Oct	Delta Temperature
II - 550	Report #5 II-560		AA23	1980	Nov	Hydrogen Sulfide
#7/II - 749	Report #6 II-467		AA23	1981	Apr	Nitric Oxide
II - 750	Report #6 II-469		AA23	1981	Apr	Oxides of Nitrogen
II- 751	Report #6 II-471		AA23	1981	Apr	Nitrogen Dioxide

CB-TRACT
TRAILER AB23
APR 1981
OCCIDENTAL OIL

[illegible]

OXIDES OF NITROGEN
(116/43)

CR-TRACT
TRAILER AB23
APR 1981
OCCIDENTAL OIL SHALE INC.

HOUR (LOCAL STANDARD TIME)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVE	PEAK
1	4	6	4	4	2	2	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	6
2	4	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
4	8	8	9	9	11	9	15	11	8	9	11	9	4	13	11	4	4	6	8	11	8	8	9	11	9	15
5	11	9	9	11	13	19	11	9	9	8	6	6	4	4	2	2	2	2	0	0	4	4	6	6	7	19
6	8	6	6	8	6	8	8	8	8	4	0	0	0	0	0	0	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	4	8
7	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
8	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
9	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
10	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
11	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
12	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
13	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
14	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
15	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
16	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
17	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
18	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
19	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
20	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
21	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
22	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
23	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
24	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
25	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
26	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
27	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
28	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
29	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
30	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	(IM)	()	()
AV	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
PK	11	9	9	11	13	19	15	11	9	9	11	26	8	13	11	17	24	28	36	11	8	9	9	11	()	36

CR-TRACT
TRAILER AB23
APP 1981
OCCIDENTAL OIL SHALE INC.

(109-181-881)

DOWNTIME HOURS FOR C-b SHALE OIL PROJECT

Quarterly Report Containing the Correction Page No.	Quarterly Report Containing Incorrect Data Page No.	Station No.	Year	Month	Constituent Identification
6/II B-1516	5/II C-75	020	1975	August	Downtime Hours
6/II B-1517	5/II C-78	023	1975	August	
6/II B-1564	5/II C-409	020	1975	Sept.	
6/II B-1565	5/II C-412	023	1975	Sept.	
6/II B-1612	5/II C-756	020	1975	October	
6/II B-1613	5/II C-759	023	1975	October	

CROSS-INDEX TO CORRECTIONS TO TABLE-III OF MONTHLY RADIAN REPORTS

MONTHLY AVERAGES

Quarterly Report Containing the Correction Page No.	Quarterly Report Containing Incorrect Data Page No.	Station No.	Year	Month	Constituent Identification
6/II B-1518	5/II C-106	020, 021, 022, 023, 024	1975	August	NMHC, CO, Ozone, Barometric Pressure, Total Precipitation, Particulate
6/II B-1566	5/II C-439	020, 021, 022, 023, 024	1975	Sept.	" " "
6/II B-1614	5/II C-786	020, 021, 022, 023, 024	1975	October	" " "
7/II B-1600	6/II B-814	020, 021, 022, 023, 024	1976	January	NO _x , NO, NO ₂ , SO ₂ , Wind Speed, Wind Direction, Relative Humidity, Temp- erature, Pyranometer, Hydrogen Sulfide, Total Hydrocarbons, Methane
7/II B-1603	7/II B-182	020, 021, 022, 023, 024	1976	Feb.	" " "
7/II B-1608	7/II B-897	023	1976	April	Wind Speed, Wind Direc- tion, Relative Humidity, Temperature

CROSS-INDEX TO CORRECTIONS TO TABLE-IV OF MONTHLY RADIAN REPORTS

DAILY AVERAGES

Quarterly Report Containing the Correction Page No.	Quarterly Report Containing Incorrect Data Page No.	Station No.	Year	Month	Constituent Identification
6/II B-1519	5/II C-114	020 & 023	1975	August	NMHC, CO
6/II B-1567	5/II C-447	020 & 023	1975	Sept.	" "
6/II B-1615	5/II C-794	020 & 023	1975	October	" "
7/II B-1601	6/II B-818	020, 021, 022, 023, 024	1976	January	NO ₂ , SO ₂
7/II B-1602	6/II B-821	020, 022, 023, 024	1976	January	Pyranometer, Hydrogen Sulfide
7/II B-1604	7/II B-186	020, 021, 022, 023, 024	1976	Feb.	NO ₂ , SO ₂
7/II B-1605	7/II B-189	020, 022, 023, 024	1976	Feb.	Pyranometer, Hydrogen Sulfide
7/II B-1609	7/II B-909	023	1976	April	Wind Direction -8', 30', 100', 200'
7/II B-1610	7/II B-911	023	1976	April	Temperature - 8', 30', 100', 200'

CROSS-INDEX TO CORRECTIONS TO TABLE-V. OF MONTHLY RADIAN REPORTS

MAXIMUM 5-MINUTE AVERAGES AND TIME OF OCCURANCE

Quarterly Report Containing the Correction Page No.	Quarterly Report Containing Incorrect Data Page No.	Station No.	Year	Month	Constituent Identification
6/II B-1520	5/II C-133	020 & 023	1975	August	CO
6/II B-1568	5/II C-466	020 & 023	1975	Sept.	"
6/II B-1616	5/II C-813	020 & 023	1975	October	"
6/II B-1606	7/II B-201	020, 021, 022, 024	1976	Feb.	SO ₂
7/II B-1607	7/II B-206	020, 022, 023, 024	1976	Feb.	Hydrogen Sulfide
7/II B-1611	7/II B-929	023	1976	April	Wind Speed - Wind Direction - 8', 30', 100', 200'
7/II B-1612	7/II B-931	023	1976	April	Temperature - 8', 30', 100', 200'

THE FIVE MAXIMUM INDEPENDENT SLIDING AVERAGES

II-756

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

Quarterly Report Containing the Correction Page No.	Quarterly Report Containing Incorrect Data Page No.	Station No.	Year	Month	Constituent Identification
6/II B-1522	5/II C-169	020	1975	August	Carbon Monoxide
6/II B-1523	5/II C-170	023	1975	August	" "
6/II B-1570	5/II C-502	020	1975	Sept.	" "
6/II B-1571	5/II C-503	023	1975	Sept.	" "
6/II B-1618	5/II C-849	020	1975	October	" "
6/II B-1619	5/II C-850	023	1975	October	" "

CROSS-INDEX TO CORRECTIONS TO TABLE -VIII OF MONTHLY
RADIAN REPORT

DIURNAL VARIATION OF GASES, PARTICULATES, AND METEOROLOGICAL DATA

Quarterly Report Containing the Correction Page No.	Quarterly Report Containing Incorrect Data Page No.	Station No.	Year	Month	Constituent Identification
6/II B-1524	5/II C-196	020	1975	August	Carbon Monoxide
6/II B-1525	5/II C-197	023	1975	August	" "
6/II B-1572	5/II C-529	020	1975	Sept.	" "
6/II B-1573	5/II C-530	023	1975	Sept.	" "
6/II B-1620	5/II C-876	020	1975	October	" "
6/II B-1621	5/II C-877	023	1975	October	" "
6/II B-1526	5/II C-273	020	1975	August	Graph of Carbon Monoxide
6/II B-1527	5/II C-274	023	1975	August	" " " "
6/II B-1574	5/II C-606	020	1975	Sept.	" " " "
6/II B-1575	5/II C-607	023	1975	Sept.	" " " "
6/II B-1622	5/II C-953	020	1975	October	" " " "
6/II B-1623	5/II C-954	023	1975	October	" " " "
7/II B-1613	7/II B-1012	023	1976	April	Wind Direction - 200'
7/II B-1614	7/II B-1037	023	1976	April	Temperature at 30'
7/II B-1615	7/II B-1039	023	1976	April	Temperature at 200'
7/II B-1617	7/II B-1115	023	1976	April	Graph of Temperature at 30'
7/II B-1618	7/II B-1117	023	1976	April	Graph of Temperature at 200'
7/II B-1616	7/II B-1101	023	1976	April	Graph of Wind Direction at 200'

(Continued)

DIURNAL VARIATIONS OF GASES, PARTICULATES, AND METEOROLOGICAL DATA

Quarterly Report Containing the Correction Page No.	Quarterly Report Containing Incorrect Data Page No.	Station No.	Year	Month	Constituent Identification
8/II B-1570	3/II C-171	020	1975	Jan.	Non-methane Hydrocarbons
8/II B-1571	3/II C-172	023	1975	Jan.	" " "
8/II B-1574	3/II C-501	020	1975	Feb.	" " "
8/II B-1575	3/II C-502	023	1975	Feb.	" " "
8/II B-1578	3/II C-827	020	1975	Mar.	" " "
8/II B-1579	3/II C-828	023	1975	Mar.	" " "
8/II B-1582	3/II C-1152	020	1975	Apr.	" " "
8/II B-1583	3/II C-1153	023	1975	Apr.	" " "
8/II B-1586	4/II C-199	020	1975	May	" " "
8/II B-1587	4/II C-200	023	1975	May	" " "
8/II B-1590	4/II C-528	020	1975	June	" " "
8/II B-1591	4/II C-529	023	1975	June	" " "
8/II B-1594	4/II C-860	020	1975	July	" " "
8/II B-1595	4/II C-861	023	1975	July	" " "
8/II B-1598	5/II C-194	020	1975	Aug.	" " "
8/II B-1599	5/II C-195	023	1975	Aug.	" " "
8/II B-1602	5/II C-527	020	1975	Sept.	" " "
8/II B-1603	5/II C-528	023	1975	Sept.	" " "
8/II B-1606	5/II C-874	020	1975	Oct.	" " "
8/II B-1607	5/II C-875	023	1975	Oct.	" " "
8/II B-1610	6/II B-241	020	1975	Nov.	" " "
8/II B-1611	6/II B-242	023	1975	Nov.	" " "
8/II B-1614	6/II B-569	020	1975	Dec.	" " "
8/II B-1615	6/II B-570	023	1975	Dec.	" " "
8/II B-1618	6/II B-901	020	1976	Jan.	" " "
8/II B-1619	6/II B-902	023	1976	Jan.	" " "
8/II B-1622	7/II B-271	020	1976	Feb.	" " "
8/II B-1623	7/II B-272	023	1976	Feb.	" " "
8/II B-1626	7/II B-622	020	1976	Mar.	" " "
8/II B-1627	7/II B-623	023	1976	Mar.	" " "
8/II B-1572	3/II C-250	020	1975	Jan.	Graph of Non-methane Hydrocarbons
8/II B-1573	3/II C-251	023	1975	Jan.	" " " " "

(Continued)

DIURNAL VARIATIONS OF GASES, PARTICULATES, AND METEOROLOGICAL DATA

Quarterly Report Containing the Correction Page No.	Quarterly Report Containing Incorrect Data Page No.	Station No.	Year	Month	Constituent Identification
8/II B-1576	3/II C-580	020	1975	Feb.	Graph of Non-methane Hydrocarbons
8/II B-1577	3/II C-581	023	1975	Feb.	" " " " "
8/II B-1580	3/II C-907	020	1975	Mar.	" " " " "
8/II B-1581	3/II C-908	023	1975	Mar.	" " " " "
8/II B-1584	3/II C-1229	020	1975	Apr.	" " " " "
8/II B-1585	3/II C-1230	023	1975	Apr.	" " " " "
8/II B-1588	4/II C-276	020	1975	May	" " " " "
8/II B-1589	4/II C-277	023	1975	May	" " " " "
8/II B-1592	4/II C-605	020	1975	June	" " " " "
8/II B-1593	4/II C-606	023	1975	June	" " " " "
8/II B-1596	4/II C-937	020	1975	July	" " " " "
8/II B-1597	4/II C-938	023	1975	July	" " " " "
8/II B-1600	5/II C-271	020	1975	Aug.	" " " " "
8/II B-1601	5/II C-272	023	1975	Aug.	" " " " "
8/II B-1604	5/II C-604	020	1975	Sept.	" " " " "
8/II B-1605	5/II C-605	023	1975	Sept.	" " " " "
8/II B-1608	5/II C-951	020	1975	Oct.	" " " " "
8/II B-1609	5/II C-952	023	1975	Oct.	" " " " "
8/II B-1612	6/II B-318	020	1975	Nov.	" " " " "
8/II B-1613	6/II B-319	023	1975	Nov.	" " " " "
8/II B-1616	6/II B-646	020	1975	Dec.	" " " " "
8/II B-1617	6/II B-647	023	1975	Dec.	" " " " "
8/II B-1620	6/II B-978	020	1976	Jan.	" " " " "
8/II B-1621	6/II B-979	023	1976	Jan.	" " " " "
8/II B-1624	7/II B-348	020	1976	Feb.	" " " " "
8/II B-1625	7/II B-349	023	1976	Feb.	" " " " "
8/II B-1628	7/II B-710	020	1976	Mar.	" " " " "
8/II B-1629	7/II B-711	023	1976	Mar.	" " " " "

CROSS INDEX TO CORRECTIONS TO MRI DIURNAL
WIND DIRECTION DATA

Quarterly Report Containing the Correction	Page No.	Quarterly Report Containing the Incor- rect Data	Page No.	Sta. No.	Year	Month	Identification
9/ II B-63		4/ II C-35		031	1975	July	Wind Direction
64		-36		032			Wind Direction
65		-37		033			Wind Direction
66		5/ II C-34		031		Aug.	Wind Direction
67		-35		032			Wind Direction
68		-36		033			Wind Direction
69		6/ II B-33		031		Sept.	Wind Direction
70		-37		032			Wind Direction
71		-41		033			Wind Direction
72		-45		031		Oct.	Wind Direction
73		-49		032			Wind Direction
74		-53		033			Wind Direction
75		-57		031		Nov.	Wind Direction
76		-61		032			Wind Direction
77		-65		033			Wind Direction
78		-69		031	1975	Dec.	Wind Direction
79		-73		032			Wind Direction
80		-77		033			Wind Direction
81		-81		031	1976	Jan.	Wind Direction
82		-85		032			Wind Direction
83		-89		033			Wind Direction
84		7/ II B-34		031		Feb.	Wind Direction
				032			Wind Direction
85		-35		033			Wind Direction
86		-44		031		Mar.	Wind Direction
87		-45		032			Wind Direction
88		-46		033			Wind Direction
89		-56		031		Apr.	Wind Direction
90		-57		032			Wind Direction
91		-58		033			Wind Direction
92		8/ II B-67		041		May	Wind Direction
93		-68		042			Wind Direction
94		-69		043			Wind Direction
95		-70		041		June	Wind Direction
96		-71		042			Wind Direction
97		-72		043			Wind Direction
98		-73		041		July	Wind Direction
-		-		042			Wind Direction
99		-74		043	1976		Wind Direction

CROSS INDEX TO CORRECTIONS, AEROVIRONMENT REPORTS

DIURNAL VARIATION OF GASES, PARTICULATES, AND METEOROLOGICAL DATA

Semi Annual Report Con- taining Correction	* Page No.	Interim Monitoring Report Containing Incorrect Data	Page No.	Station No.	Year	Month	Constituent Identification
1/II B-1911		2/II B-171		023	77	Sept.	Total Hydrocarbons
1/II B-1912		2/II B-173		023	77	Sept.	Hydrocarbons less Methane
1/II B-1913		2/II B-172		023	77	Sept.	Methane
1/II B-1914		2/II B-174		023	77	Sept.	Carbon Monoxide
1/II B-1922		2/II B-277		023	77	Oct.	Total Hydrocarbons
1/II B-1923		2/II B-279		023	77	Oct.	Hydrocarbons less Methane
1/II B-1924		2/II B-278		023	77	Oct.	Methane
1/II B-1925		2/II B-280		023	77	Oct.	Carbon Monoxide
1/II B-1933		2/II B-379		023	77	Nov.	Delta T #2
1/II B-1947		2/II B-567		023	77	Dec.	Delta T #2
1/II B-1961		2/II B-779		023	77	Jan.	Barometric Pressure
1/II B-1962		2/II B-777		023	78	Jan.	Delta T #2
* Development Monitoring Report Number 1.							

CROSS-INDEX TO CORRECTIONS TO TABLE - AEROVIRONMENT REPORTS

DOWNTIME HOURS AND PERCENT EFFICIENCY REPORT

Semi Annual Report Con- taining Page Correction No.	Interim Monitoring Report Containing Incorrect Page Data No.	Station No.	Year	Month	Constituent Identification
1/II B-1916	2/II B-198	023	1977	Sept.	Part, RH1, SOLR, SO2, STH2, STH3, STH4, TEM2, TFM3, TEM4, THC, WD2, WD3, WD4, WS2, WS3, WS4
1/II B-1917	2/II B-197	023	1977	Sept.	BARP, BHD1, BHD3, BHP1, BSP3, BST1, BST3, BVD1, BVD3, BWS1, BWS3, CH4, CO, DT2, H2S, NO, NOX, O3
1/II B-1932	2/II B-304	023	1977	October	BARP, BHD1, BHD3, BHP1, BSP3, BST1, BST3, BVD1, BVD3, BWS1, BWS3, BWS3, CH4, CO, DT2, H2S, NO, NOX, O3
1/II B-1931	2/II B-305	023	1977	October	Part, RH1, SOLR, SO2, STH2, STH3, STH4, TEM2, TEM3, TEM4, THC, WD2, WD3, WD4, WS2, WS3, WS4

CROSS-INDEX TO CORRECTIONS TO TABLE-AEROVIRONMENT REPORTS

STABILITY CLASS REPORT

Semi Annual Report Con- taining Correction	Page No.	Interim Monitoring Report Containing Incorrect Data	Page No.	Station No.	Year	Month	Constituent Identification
1/II B-1934		2/II B-493		023	77	Nov.	Clock Hour
1/II B-1935		2/II B-494		023	77	Nov.	Hourly Wind Speed and Direction for Stability Class A
1/II B-1936		2/II B-495		023	77	Nov.	Hourly Wind Speed and Direction for Stability Class A
1/II B-1937		2/II B-496		023	77	Nov.	Hourly Wind Speed and Direction for Stability Class B
1/II B-1938		2/II B-497		023	77	Nov.	Hourly Wind Speed and Direction for Stability Class B
1/II B-1939		2/II B-498		023	77	Nov.	Hourly Wind Speed and Direction for Stability Class C
1/II B-1940		2/II B-499		023	77	Nov.	Hourly Wind Speed and Direction for Stability Class C
1/II B-1941		2/II B-500		023	77	Nov.	Hourly Wind Speed and Direction for Stability Class D
1/II B-1942		2/II B-501		023	77	Nov.	Hourly Wind Speed and Direction for Stability Class D
1/II B-1943		2/II B-502		023	77	Nov.	Hourly Wind Speed and Direction for Stability Class E
1/II B-1944		2/II B-503		023	77	Nov.	Hourly Wind Speed and Direction for Stability Class E

CROSS-INDEX TO CORRECTIONS TO TABLE-AEROVIRONMENT REPORTS

STABILITY CLASS REPORT

(CONTINUED)

Semi Annual Report Con- taining Corrections	Page No.	Interim Monitoring Report Containing Incorrect Data	Page No.	Station No.	Year	Month	Constituent Identification
1/II B-1945		2/II B-504		023	77	Nov.	Hourly Wind Speed and Direction for Stability Class F
1/II B-1946		2/II B-505		023	77	Nov.	Hourly Wind Speed and Direction for Stability Class F
1/II B-1948		2/II B-703		023	77	Dec.	Clock Hour
1/II B-1949		2/II B-704		023	77	Dec.	Hourly Wind Speed and Direction for Stability Class A
1/II B-1950		2/II B-705		023	77	Dec.	Hourly Wind Speed and Direction for Stability Class A
1/II B-1951		2/II B-706		023	77	Dec.	Hourly Wind Speed and Direction for Stability Class B
1/II B-1952		2/II B-707		023	77	Dec.	Hourly Wind Speed and Direction for Stability Class B
1/II B-1953		2/II B-708		023	77	Dec.	Hourly Wind Speed and Direction for Stability Class C
1/II B-1954		2/II B-709		023	77	Dec.	Hourly Wind Speed and Direction for Stability Class C
1/II B-1955		2/II B-710		023	77	Dec.	Hourly Wind Speed and Direction for Stability Class D
1/II B-1956		2/II B-711		023	77	Dec.	Hourly Wind Speed and Direction for Stability Class D

CROSS-INDEX TO CORRECTIONS TO TABLE-AEROVIRONMENT REPORTS

STABILITY CLASS REPORT

(CONTINUED)

Semi Annual Report Con- taining Correction	Page No.	Interim Monitoring Report Containing Incorrect Data	Page No.	Station No.	Year	Month	Constituent Identification
1/II B-1957		2/II B-712		023	77	Dec.	Hourly Wind Speed and Direction for Stability Class E
1/II B-1958		2/II B-713		023	77	Dec.	Hourly Wind Speed and Direction for Stability Class E
1/II B-1959		2/II B-714		023	77	Dec.	Hourly Wind Speed and Direction for Stability Class F
1/II B-1960		2/II B-715		023	77	Dec.	Hourly Wind Speed and Direction for Stability Class F
1/II B-1967		2/II B-923		023	78	Jan.	Clock Hour
1/II B-1968		2/II B-924		023	78	Jan.	Hourly Wind Speed and Direction for Stability Class A
1/II B-1969		2/II B-925		023	78	Jan.	Hourly Wind Speed and Direction for Stability Class A
1/II B-1970		2/II B-926		023	78	Jan.	Hourly Wind Speed and Direction for Stability Class B
1/II B-1971		2/II B-927		023	78	Jan.	Hourly Wind Speed and Direction for Stability Class B
1/II B-1972		2/II B-928		023	78	Jan.	Hourly Wind Speed and Direction for Stability Class C
1/II B-1973		2/II B-929		023	78	Jan.	Hourly Wind Speed and Direction for Stability Class C

CROSS-INDEX TO CORRECTIONS TO TABLE-AEROVIRONMENT REPORTS

STABILITY CLASS REPORT

(CONTINUED)

Semi Annual Report Con- taining Correction	Page No.	Interim Monitoring Report Containing Incorrect Data	Page No.	Station No.	Year	Month	Constituent Identification
1/II B-1974		2/II B-930		023	78	Jan.	Hourly Wind Speed and Direction for Stability Class D
1/II B-1975		2/II B-931		023	78	Jan.	Hourly Wind Speed and Direction for Stability Class D
1/II B-1976		2/II B-932		023	78	Jan.	Hourly Wind Speed and Direction for Stability Class E
1/II B-1977		2/II B-933		023	78	Jan.	Hourly Wind Speed and Direction for Stability Class E
1/II B-1978		2/II B-934		023	78	Jan.	Hourly Wind Speed and Direction for Stability Class F
1/II B-1979		2/II B-935		023	78	Jan.	Hourly Wind Speed and Direction for Stability Class F

CROSS-INDEX TO CORRECTIONS TO TABLE - AEROVIRONMENT REPORTS

THE FIVE MAXIMUM INDEPENDENT SLIDING AVERAGE

Semi Annual Report Con- taining Correction	Page No.	Interim Monitoring Report Containing Incorrect Data	Page No.	Station No.	Year	Month	Constituent Identification
1/II B-1915		2/II B-212		023	1977	Sept.	Carbon Monoxide, Particulates, Hydro- carbons less Methane
1/II B-1926		2/II B-319		023	1977	October	Carbon Monoxide, Particulates, Hydro- carbons less Methane

CROSS-INDEX TO CORRECTIONS TO TABLE - AEROVIRONMENT REPORTS

DAILY AVERAGES SUMMARY REPORT

Semi Annual Report Con- ing Correction	Page No.	Interim Monitoring Report Containing Incorrect Data	Page No.	Station No.	Year	Month	Constituent Identification
1/II B-1918		2/II B-216		023	1977	Sept.	BST1, BST3, BSP1, BSP3, STH2, STH3, STH4
1/II B-1920		2/II B-215		023	1977	Sept.	WS2, WD2, WS3, WD3, WS4, WD4, BWS1, BHD1, BVD1, BWS3, BHD3, BVD1
1/II B-1921		2/II B-214		023	1977	Sept.	NOX, NO2, NO, SO2, H2S, O3, THC, HC, CH4, CO
1/II B-1919		2/II B-217		023	1977	Sept.	TEM2, TEM3, TEM4, RH1, BARP, SOLR, DT2
1/II B-1928		2/II B-321		023	1977	October	NOX, NO2, NO, SO2, H2S, O3, THC, HC, CH4, CO
1/II B-1927		2/II B-322		023	1977	October	WS2, WD2, WS3, WD3, WS4, WD4, BWS1, BHD1, BVD1, BWS3, BHD3, BVD3
1/II B-1930		2/II B-323		023	1977	October	BST1, BST3, BSP1, BSP3, STH2, STH3, STH4
1/II B-1929		2/II B-324		023	1977	October	TEM2, TEM3, TEM4, RH1, BARP, SOLR, DT2
1/II B-1966		2/II B-939		023	1978	Jan.	TEM2, TEM3, TEM4, RH1, BARP, SOLR, DT2
1/II B-1964		2/II B-940		023	1978	Jan.	BST1, BST3, BSP1, BSP3, STH2, STH3, STH4
1/II B-1963		2/II B-941		023	1978	Jan.	WS2, WD2, WS3, WD3, WS4, WD4, BWS1, BHD1, BVD1, BWS3, BHD3, BVD3
1/II B-1965		2/II B-942		023	1978	Jan.	NOX, NO2, NO, SO2, H2S, O3, THC, HC, CH4, CO

CROSS INDEX TO CORRECTIONS, C-b DATA REPORTS

DIURNAL VARIATION OF GASES, PARTICULATES, AND METEOROLOGICAL DATA

Semi Annual * Report Containing Correction	Page No.	Semi Annual Report Containing Incorrect Data	Page No.	Station No.	Year	Month	Constituent Identification
2/ II B-889		1/II B-1307		AB20	78	June	Inversion Height
2/ II B-890		1/II B-1468		AB23	78	July	Barometric Pressure
2/ II B-891		1/II B-1779		AB23	78	Sept.	Temperature @60m
2/ II B-892		1/II B-1784		AB23	78	Sept.	Solar Radiation
2/ II B-893		1/II B-1757		AB23	78	Sept.	Sulfur Dioxide
* Development Monitoring Report Number 2							

CROSS INDEX TO CORRECTIONS, C-b DATA REPORTS

Diurnal Variation of Gases, Particulates, and Meteorological Data

Semi Annual* Report Containing Page Correction No.	Semi Annual Report Containing Incorrect Data / Page No.	Station No.	Year	Month	Constituent Identification
#3 / IIB-646	Interim Monitoring Report #2 / IIB-779	AB23	1978	Jan.	Barometric Pressure
-647	Development Monitoring Report #1 / IIB-468	AB23	1978	Feb.	Barometric Pressure
-648	" #1 / IIB-867	AB23	1978	Mar.	Barometric Pressure
-649	" #1 / IIB-899	AB23	1978	Apr.	Barometric Pressure
-650	" #1 / IIB-1107	AB23	1978	May	Barometric Pressure
-651	" #1 / IIB-1762	AB23	1978	Sep.	Carbon Monoxide
-652	" #2 / IIB-144	AB20	1978	Oct.	Carbon Monoxide
-653	" #2 / IIB-195	AB23	1978	Oct.	Carbon Monoxide
-654	" #2 / IIB-378	AB20	1978	Nov.	Carbon Monoxide
-655	" #2 / IIB-379	AB23	1978	Nov.	Carbon Monoxide
-656	" #2 / IIB-496	AB20	1978	Dec.	Carbon Monoxide
-657	" #2 / IIB-497	AB23	1978	Dec.	Carbon Monoxide
-658	" #2 / IIB-578	AB20	1979	Jan.	Carbon Monoxide
-659	" #2 / IIB-579	AB23	1979	Jan.	Carbon Monoxide
-660	" #2 / IIB-656	AB20	1979	Feb.	Carbon Monoxide
-661	" #2 / IIB-657	AB23	1979	Feb.	Carbon Monoxide
-662	" #2 / IIB-738	AB20	1979	Mar.	Carbon Monoxide
-663	" #2 / IIB-867	AB20	1979	Apr.	Carbon Monoxide
-673	" #2 / IIB-742	AB20	1979	Mar.	Particulates
-673	" #2 / IIB-742	AB23	1979	Mar.	Particulates
-673	" #2 / IIB-742	AD56	1979	Mar.	Particulates
-674	" #2 / IIB-824	AB20	1979	Apr.	Particulates
-674	" #2 / IIB-824	AB23	1979	Apr.	Particulates
-674	" #2 / IIB-824	AD56	1979	Apr.	Particulates
-664	" #2 / IIB-1287	AB20	1978	Jun.	Particulates
-664	" #2 / IIB-1287	AB23	1978	Jun.	Particulates
-664	" #2 / IIB-1287	AD42	1978	Jun.	Particulates
-664	" #2 / IIB-1287	AD56	1978	Jun.	Particulates
-665	" #2 / IIB-1449	AB20	1978	Jul.	Particulates
-665	" #2 / IIB-1449	AB23	1978	Jul.	Particulates
-665	" #2 / IIB-1449	AD42	1978	Jul.	Particulates
-665	" #2 / IIB-1449	AD56	1978	Jul.	Particulates

* Development Monitoring Report Number 3

CROSS INDEX TO CORRECTIONS, C-b DATA REPORTS

Diurnal Variation of Gases, Particulates, and Meteorological Data

(Continued)

Semi Annual* Report Containing Correction	Page No.	Semi Annual Report Containing		Station No.	Year	Month	Constituent Identification
		Incorrect Data	Page No.				
#3 / IIB-		Development Monitoring					
-666		Report #2 / IIB-1605		AB20	1978	Aug.	Particulates
-666		" #2 / IIB-1605		AB23	1978	Aug.	Particulates
-666		" #2 / IIB-1605		AD42	1978	Aug.	Particulates
-666		" #2 / IIB-1605		AD56	1978	Aug.	Particulates
-667		" #2 / IIB-1763		AB20	1978	Sep.	Particulates
-667		" #2 / IIB-1763		AB23	1978	Sep.	Particulates
-667		" #2 / IIB-1763		AD42	1978	Sep.	Particulates
-667		" #2 / IIB-1763		AD56	1978	Sep.	Particulates
-668		" #2 / IIB-198		AB20	1978	Oct.	Particulates
-668		" #2 / IIB-198		AB23	1978	Oct.	Particulates
-668		" #2 / IIB-198		AD42	1978	Oct.	Particulates
-668		" #2 / IIB-198		AD56	1978	Oct.	Particulates
-669		" #2 / IIB-382		AB20	1978	Nov.	Particulates
-669		" #2 / IIB-382		AB23	1978	Nov.	Particulates
-669		" #2 / IIB-382		AD42	1978	Nov.	Particulates
-669		" #2 / IIB-382		AD56	1978	Nov.	Particulates
-670		" #2 / IIB-500		AB20	1978	Dec.	Particulates
-670		" #2 / IIB-500		AB23	1978	Dec.	Particulates
-670		" #2 / IIB-500		AD42	1978	Dec.	Particulates
-670		" #2 / IIB-500		AD56	1978	Dec.	Particulates
-671		" #2 / IIB-582		AB20	1979	Jan.	Particulates
-671		" #2 / IIB-582		AB23	1979	Jan.	Particulates
-671		" #2 / IIB-582		AD42	1979	Jan.	Particulates
-671		" #2 / IIB-582		AD42	1979	Jan.	Particulates
-672		" #2 / IIB-660		AB20	1979	Feb.	Particulates
-672		" #2 / IIB-660		AB23	1979	Feb.	Particulates
-672		" #2 / IIB-660		AD56	1979	Feb.	Particulates

*Development Monitoring Report Number 3

CROSS INDEX TO CORRECTIONS, C-b DATA REPORTS

The Five Maximum Independent Sliding Averages

Semi Annual* Report Containing Correction	Page No.	Semi Annual Report Containing Incorrect Data	Page No.	Station No.	Year	Month	Constituent Identification
#3 / IIB-		Development Monitoring Report	#2 / IIB-1906	AB23	1978	Sep.	CO
-620		"	#2 / IIB-1907	AB23	1978	Sep.	SO ₂ , O ₃
-620		"	#2 / Missing	AB20	1978	Oct.	CO, O ₃
-621		"	#2 / IIB-353	AB23	1978	Oct.	CO
-622		"	#2 / IIB-354	AB23	1978	Oct.	SO ₂ , O ₃
-622		"	#2 / IIB-471	AB20	1978	Nov.	CO, O ₃
-623		"	#2 / IIB-472	AB23	1978	Nov.	CO
-624		"	#2 / IIB-473	AB23	1978	Nov.	SO ₂ , O ₃
-624		"	#2 / IIB-553	AB20	1978	Dec.	CO, O ₃
-625		"	#2 / IIB-554	AB23	1978	Dec.	CO
-626		"	#2 / IIB-555	AB23	1978	Dec.	SO ₂ , O ₃
-626		"	#2 / IIB-631	AB20	1979	Jan.	CO, O ₃
-627		"	#2 / IIB-632	AB23	1979	Jan.	SO ₂ , O ₃
-628		"	#2 / IIB-633	AB23	1979	Jan.	CO
-628		"	#2 / IIB-713	AB20	1979	Feb.	CO, O ₃
-629		"	#2 / IIB-714	AB23	1979	Feb.	CO
-630		"	#2 / IIB-715	AB23	1979	Feb.	SO ₂ , O ₃
-630		"	#2 / IIB-795	AB20	1979	Mar.	CO, O ₃
-631		"	#2 / IIB-877	AB20	1979	Apr.	CO, O ₃
-632							

*Development Monitoring Report Number 3

CROSS INDEX TO CORRECTIONS, C-b DATA REPORTS

Number of One Hour Samples by Concentration and Wind Direction

Semi Annual* Report Containing Correction	Page No.	Semi Annual Report Containing Incorrect Data	Page No.	Station No.	Year	Month	Constituent Identification
#3 / IIB-		Development Monitoring Report #2 / IIB-miss-		AB23	1978	Sep.	Carbon Monoxide
-633		ing					
-634		" #2 / IIB-343		AB20	1978	Oct.	Carbon Monoxide
-635		" #2 / IIB-344		AB23	1978	Oct.	Carbon Monoxide
-636		" #2 / IIB-462		AB20	1978	Nov.	Carbon Monoxide
-637		" #2 / IIB-463		AB23	1978	Nov.	Carbon Monoxide
-638		" #2 / IIB-543		AB20	1978	Dec.	Carbon Monoxide
-639		" #2 / IIB-544		AB23	1978	Dec.	Carbon Monoxide
-640		" #2 / IIB-622		AB20	1979	Jan.	Carbon Monoxide
-641		" #2 / IIB-623		AB23	1979	Jan.	Carbon Monoxide
-642		" #2 / IIB-703		AB20	1979	Feb.	Carbon Monoxide
-643		" #2 / IIB-704		AB23	1979	Feb.	Carbon Monoxide
-644		" #2 / IIB-785		AB20	1979	Mar.	Carbon Monoxide
-645		" #2 / IIB-786		AB20	1979	Apr.	Carbon Monoxide

*Development Monitoring Report Number 3

CROSS INDEX TO CORRECTIONS, C-5 DATA REPORTS

Semi Annual Report Containing Correction	Page No.	Semi Annual Report Containing Incorrect Data		Station No.	Year	Month	Constituent Identification
			Page No.				
#4/II	-717	Development Monitoring					
	-718	Report #3 / IIB-165		AB23	1979	May	Evaporation
	-719	" #3 / IIB-249		AB23	1979	June	Evaporation
	-720	" #3 / IIB-333		AB23	1979	July	Evaporation
	-721	" #3 / IIB-417		AB23	1979	Aug.	Evaporation
	-722	" #3 / IIB-501		AB23	1979	Sept	Evaporation
	-722	" #3 / IIB-585		AB23	1979	Oct.	Evaporation
	-723	" #2 / IIC-8		--	78-79	--	Deer Road Kill

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2.3.11 SUPPLEMENTAL DATA REPORT

This section contains supplemental data not included in the monthly data reports.

QUARTERLY FREQUENCY TABLE OF WIND SPEED BY DIRECTION

			<u>Page</u>
Station AB20 (03/01/81 to 05/31/81)			II-778
Station AA23 (03/01/81 to 05/31/81)	10 Meter		II-779
Station AA23 (03/01/81 to 05/31/81)	30 Meter		II-780
Station AA23 (03/01/81 to 05/31/81)	60 Meter		II-781
Station AB20 (06/01/81 to 08/31/81)			II-782
Station AA23 (06/01/81 to 08/31/81)	10 Meter		II-783
Station AA23 (06/01/81 to 08/31/81)	30 Meter		II-784
Station AA23 (06/01/81 to 08/31/81)	60 Meter		II-785

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

10 METER LEVEL

C-B SHALE OIL PROJECT

STATION AB20 PERIOD(3/01/81 TO 5/31/81)

WIND DIRECTION

WIND SPEED MAX METERS/SEC	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	TOTAL
67 11. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
8. - 11. :	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0 :	1
5. - 8. :	1	0	0	0	0	3	5	4	1	0	0	0	0	4	0	0	0 :	18
3. - 5. :	3	1	0	0	11	26	84	25	54	32	40	19	30	39	19	7	0 :	390
1. - 3. :	19	14	10	11	80	242	146	27	24	25	41	29	66	106	62	44	3 :	949
LT 1. :	9	15	13	33	84	122	55	9	5	8	7	10	12	19	23	8	3 :	435
TOTAL :	32	30	23	44	175	393	291	65	84	65	88	58	108	168	104	59	6	1793
PERCENT	2.	2.	1.	2.	10.	22.	16.	4.	5.	4.	5.	3.	6.	9.	6.	3.	0.	100.

0 = NO OBSERVATIONS

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

10 METER LEVEL

C-B SHALE OIL PROJECT

STATION AA23 PERIOD(3/01/81 TO 5/31/81)

WIND SPEED MAX METERS/SEC	WIND DIRECTION																TOTAL
	N	NNE	NE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	
GT 11. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8. - 11. :	0	0	0	0	0	0	0	9	7	9	0	0	0	0	0	0	25
5. - 8. :	1	0	0	0	0	1	4	44	67	86	12	5	4	6	10	0	240
3. - 5. :	18	9	3	1	2	6	21	75	98	96	42	16	18	38	41	0	486
1. - 3. :	45	32	20	16	29	54	87	66	85	104	46	38	41	55	79	0	870
LT 1. :	23	14	17	25	19	25	38	40	63	68	34	27	19	17	15	0	489
TOTAL :	87	55	40	42	50	81	125	150	234	320	363	134	86	116	145	0	2110
PERCENT	4.	3.	2.	2.	4.	6.	7.	11.	15.	17.	6.	4.	4.	5.	7.	0.	100

0 = NO OBSERVATIONS

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

30 METER LEVEL

C-B SHALE OIL PROJECT

STATION AA23 PERIOD(3/01/81 TO 5/**/81)

WIND SPEED MAX METERS/SEC	WIND DIRECTION													TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	
GT 11. :	0	0	0	0	0	0	0	1	7	5	7	0	0	0 : 20
8. - 11. :	0	0	0	0	0	1	0	18	36	50	47	2	2	0 : 164
5. - 8. :	4	1	0	1	1	8	7	16	62	109	63	17	12	0 : 358
3. - 5. :	21	16	6	7	8	28	51	35	42	63	51	31	17	0 : 501
1. - 3. :	40	25	24	29	53	83	89	58	39	38	23	28	36	0 : 718
LT 1. :	19	16	12	20	32	28	41	17	19	27	27	17	20	0 : 343
TOTAL :	84	58	42	57	94	148	188	145	205	292	218	95	87	0 2102
PERCENT	4.	3.	2.	3.	4.	7.	9.	7.	10.	14.	10.	5.	4.	0. 100.

0 = NO OBSERVATIONS

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

C-B SHALE OIL PROJECT

60 METER LEVEL

STATION AA23 PERIOD(3/01/81 TO 5/31/81)

WIND SPEED MAX METERS/SEC	WIND DIRECTION																	NNW	NW	WNW	W	WSW	SW	SSW	S	SSE	SE	ESE	E	ENE	NE	NNE	N	VAR	TOTAL
GT 11. :	0	0	0	0	0	0	0	1	15	9	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42					
8. - 11. :	4	0	0	0	1	0	1	2	40	83	94	7	5	7	5	5	5	5	5	5	5	5	5	5	5	5	5	0	254						
5. - 8. :	9	7	7	2	0	3	0	15	38	94	101	41	11	23	17	14	23	43	56	0	0	0	0	0	0	0	0	0	382						
3. - 5. :	40	29	17	8	6	17	29	40	51	55	53	34	23	43	56	26	43	56	0	0	0	0	0	0	0	0	0	0	527						
1. - 3. :	47	42	32	33	27	33	57	55	54	56	43	18	35	36	60	33	36	60	0	0	0	0	0	0	0	0	0	0	661						
LT 1. :	15	11	17	11	11	12	19	14	20	20	16	14	12	21	8	12	12	21	8	0	0	0	0	0	0	0	0	0	233						
TOTAL :	115	89	73	54	45	65	106	127	218	317	324	114	86	90	130	146	0	2099																	
PERCENT	5.	4.	3.	3.	2.	3.	5.	6.	10.	15.	15.	5.	4.	4.	6.	7.	0.	100.																	

0 = NO OBSERVATIONS

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

10 METER LEVEL

C-B SHALE OIL PROJECT

STATION AB20 PERIOD(6/01/81 TO 8/31/81)

WIND DIRECTION

WIND SPEED MAX METERS/SEC	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	TOTAL
GT 11. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
8. - 11. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	0
5. - 8. :	0	0	0	0	1	7	0	1	2	0	0	3	9	23	2	0	0 :	48
3. - 5. :	7	2	0	0	20	49	72	2	17	23	39	32	39	82	32	4	0 :	420
1. - 3. :	25	25	28	24	75	381	234	16	38	34	38	31	60	110	58	30	0 :	1207
LT 1. :	20	15	34	30	64	107	74	6	7	8	11	15	11	16	20	10	0 :	448
TOTAL :	52	42	62	54	160	544	380	25	64	65	88	81	119	231	112	44	0	2123
PERCENT	2.	2.	3.	3.	8.	26.	18.	1.	3.	3.	4.	4.	6.	11.	5.	2.	0.	100.

0 = NO OBSERVATIONS

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

C-B SHALE OIL PROJECT

10 METER LEVEL

STATION AA23 PERIOD(6/01/81 TO 8/31/81)

WIND DIRECTION

WIND SPEED MAX METERS/SEC	WIND DIRECTION																	VAR	TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW			
GT 11. :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8. - 11. :	0	0	0	0	0	0	0	0	0	7	3	4	0	0	1	0	0	0	
5. - 8. :	1	2	0	0	0	1	4	6	9	22	60	15	4	21	13	4	0	0	
3. - 5. :	11	13	8	4	3	10	20	28	28	66	98	36	21	32	41	40	0	0	
1. - 3. :	42	27	21	16	44	81	98	69	58	68	99	35	36	23	61	68	0	0	
LT 1. :	20	11	17	18	22	33	26	39	56	57	57	24	25	17	22	16	0	0	
TOTAL :	74	53	46	38	69	125	148	142	151	220	317	114	86	93	138	128	0	1942	
PERCENT	4.	3.	2.	2.	4.	6.	8.	7.	8.	11.	16.	6.	4.	5.	7.	7.	0.	100.	

0 = NO OBSERVATIONS

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

30 METER LEVEL

C-B SHALE OIL PROJECT

STATION AA23 PERIOD(6/01/81 TO 8/31/81)

WIND DIRECTION

WIND SPEED MAX METERS/SEC	WIND DIRECTION													NNW	VAR	TOTAL	
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W				WNW
GT 11. :	0	0	0	0	0	0	0	0	0	5	2	3	0	0	1	0	0 : 11
8. - 11. :	0	1	0	0	0	2	2	5	3	27	43	4	3	18	2	1	0 : 111
5. - 8. :	7	2	5	2	2	9	18	23	17	74	65	17	11	20	32	17	0 : 321
3. - 5. :	19	16	8	7	19	53	49	40	28	54	47	24	27	24	57	43	0 : 515
1. - 3. :	30	21	19	19	48	84	86	38	39	40	38	42	28	26	51	41	0 : 650
LT 1. :	18	14	20	18	27	22	16	30	35	26	21	17	18	14	20	19	0 : 335
TOTAL :	74	54	52	46	96	170	171	136	122	226	216	107	87	102	163	121	0 1943
PERCENT	4.	3.	3.	2.	5.	9.	9.	7.	6.	12.	11.	6.	4.	5.	8.	6.	0. 100.

0 = NO OBSERVATIONS

FREQUENCY TABLE OF WIND SPEED BY DIRECTION

60 METER LEVEL

C-B SHALE OIL PROJECT

STATION AA23 PERIOD(6/01/81 TO 8/31/81)

WIND DIRECTION

WIND SPEED MAX METERS/SEC	WIND DIRECTION																NNW	NW	NNW	VAR	TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW					

GT 11. :	0	0	0	0	0	0	0	2	1	9	9	4	1	1	1	0	0	0	0	28
8. - 11. :	2	0	1	0	0	1	5	11	10	17	68	20	2	20	12	3	0	0	0	172
5. - 8. :	4	6	3	7	3	5	18	25	24	41	100	22	13	17	28	33	0	0	0	349
3. - 5. :	31	21	12	7	9	21	73	61	29	38	45	29	29	34	41	57	0	0	0	537
1. - 3. :	31	22	21	25	29	46	80	57	41	48	33	33	46	29	47	49	0	0	0	637
LT 1. :	18	10	16	10	17	12	23	21	23	11	13	16	20	6	15	10	0	0	0	241
TOTAL :	86	59	53	49	58	85	199	177	128	164	268	124	111	107	144	152	0	0	0	1964
PERCENT	4.	3.	3.	2.	3.	4.	10.	9.	7.	8.	14.	6.	6.	5.	7.	8.	0.	0.	0.	100.

0 = NO OBSERVATIONS

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2.4 Noise

The environmental noise program conducted since baseline is not required under the lease but was requested by the Deputy Conservation Manager. General background noise levels were sought on the Tract and surrounding vicinity prior to Tract development. Monitoring of those levels was reinitiated in February, 1978 at the two sites shown in Figure 2.4-1 to determine the effects of Tract development on noise levels and has continued through the development period.



FIGURE 2.4-1
NOISE ENVIRONMENTAL MONITORING NETWORK

2.4.1 Environmental Noise

Environmental noise is covered in this section. Occupational noise exposure is covered in Section 2.7 Industrial Health and Safety. Monitoring of background levels of traffic and tract noise are shown in Figure 2.4-1.

These station locations are referenced by four-digit computer station codes. A cross-reference of the computer code and station I.D. appear in Section 4.2.

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2.4.1.1 Tract Noise

This section presents noise monitoring during the development period. Noise measurements are made at Station NB15 on the northern boundary of the tract near the V/E Shaft for 24 continuous hours every sixth day with a sensor recording system. The following tables present the data collected at Station NB15 for June, 1981 through November, 1981.

NOISE DATA
24 HOUR, FIXED SITE MONITORING
STATION NB15

1. START TIME (MST) 2. STOP TIME (MST) 3. CHART RANGE 4. WIND SPEED 5. WIND DIRECTION	PEAK db 1900 to 0700	PEAK db 0700 to 1900	AVERAGE db 1900 to 0700	AVERAGE db 0700 to 1900	BACKGROUND TAKEN FROM 1900-0700
1. 0940 6/3/81 2. 0930 6/4/81 3. 60 db 4. No Wind 5. -0-	75	78	52	60	50
1. 1130 6/11/81 2. 1130 6/12/81 3. 60 db 4. 2 - 5 mph (S) 5. 180°	70	80	55	55	53
1. 1200 6/18/81 2. 1145 6/19/81 3. 60 db 4. No Wind 5. -0-	74	78	55	60	51
1. 1130 6/24/81 2. 1200 6/25/81 3. 60 db 4. 3 - 5 mph (S) 5. 180°	73	78	54	58	52

NOISE DATA
24 HOUR, FIXED SITE MONITORING
NB15

1. START TIME (MST) 2. STOP TIME (MST) 3. CHART RANGE 4. WIND SPEED 5. WIND DIRECTION	PEAK db 1900 to 0700	PEAK db 0700 to 1900	AVERAGE db 1900 to 0700	AVERAGE db 0700 to 1900	BACKGROUND <u>TAKEN FROM 1900-0700</u>
1. 1200 7-8-81 2. 1300 7-9-81 3. 60 db 4. No Wind 5. - 0 -	78	78	54	55	53
1. 1130 7-15-81 2. 1100 7-16-81 3. 60 db 4. 3-5 (mph) 5. Southerly	75	76	55	55	53
1. 100 7-23-81 2. 1100 7-21-81 3. 60 db 4. - 0 - 5. - 0 -	76	79	54	54	53
1. 1330 7-29-81 2. 1300 7-30-81 3. 60 db 4. - 0 - 5. - 0 -	75	77	55	54	53

NOISE DATA

24 HOUR, FIXED SITE MONITORING

STATION NB15

1. START TIME (MST) 2. STOP TIME (MST) 3. CHART RANGE 4. WIND SPEED 5. WIND DIRECTION	PEAK db 1900 to 0700	PEAK db 0700 to 1900	AVERAGE db 1900 to 0700	AVERAGE db 0700 to 1900	BACKGROUND TAKEN FROM 1900-0700
1. 1350 8/5/81 2. 1330 8/6/81 3. 60db 4. 3-5 MPH 5. Southerly	76	78	55	55	53
1. 0910 8/13/81 2. 0930 8/14/81 3. 60db 4. -0- 5. No Wind	77	78	53	55	53
1. 1210 8/19/81 2. 1230 8/20/81 3. 60db 4. 5-8 MPH 5. NW	78	80	53	54	53
1. 1200 8/26/81 2. 1330 8/27/81 3. 60db 4. 5-8 MPH 5. NW	80	80	55	55	50

NOISE DATA
24 HOUR, FIXED SITE MONITORING

STATION NB15

1. START TIME (MST) 2. STOP TIME (MST) 3. CHART RANGE 4. WIND SPEED 5. WIND DIRECTION	PEAK db 1900 to 0700	PEAK db 0700 to 1900	AVERAGE db 1900 to 0700	AVERAGE db 0700 to 1900	BACKGROUND TAKEN FROM 1900-0700
1. 1430 9/2/81 2. 1430 9/3/81 3. 60db WT. A 4. Windy 5. SW	80db	80db	52db	55db	48db
1. 1400 9/9/81 2. 3. 60db WT. A 4. No Wind 5.	70db	80db	50db	55db	58db
1. 1400 9/16/81 2. 1430 9/17/81 3. 60db WT.A 4. Wind 5-8 5. West	75db	80db	52db	55-57db	48db
1. 1345 9/23/81 2. 1330 9/24/81 3. 60db WT.A 4. Wind 5mph 5. West	80db	80db	50db	55db	47db
1. 1240 9/30/81 2. 1245 10/1/81 3. 60db WT.A 4. Wind 0-5 5. West	78db	80db	52db	55db	47db

INSTRUMENT CALIBRATED 9/30/81

NOISE DATA
24 HOUR, FIXED SITE MONITORING
NB15

1. START TIME (MST) 2. STOP TIME (MST) 3. CHART RANGE 4. WIND SPEED 5. WIND DIRECTION	PEAK db 1900 to 0700	PEAK db 0700 to 1900	AVERAGE db 1900 to 0700	AVERAGE db 0700 to 1900	BACKGROUND <u>TAKEN FROM</u> 1900-0700
1. 1245 10/7/81 2. 1300 10/8/81 3. 60db 4. 0 - 8 MPH 5. SW	70db	80db	50db	53db	48db
1. 1245 10/15/81 2. 1300 10/16/81 3. 60db 4. 0 - 10 MPH 5. SW	78db	80db	50db	50db	48db
1. 0840 10/21/81 2. 0820 10/22/81 3. 60db 4. Little or no wind 5. SW	80db	80db	50db	50db	48db
1. 1400 10/28/81 2. 1410 10/29/81 3. 60db 80db 4. 8 - 20 MPH 5. SW	80db	80db	51db	53db	49db

NOISE DATA

24 HOUR, FIXED SITE MONITORING

NB15

1. START TIME 2. STOP TIME 3. CHART RANGE 4. WIND SPEED 5. WIND DIRECTION	PEAK db 1900 to 0700	PEAK db 0700 to 1900	AVERAGE db 1900 to 0700	AVERAGE db 0700 to 1900	BACKGROUND TAKEN FROM 1900 - 0700
1. 1400 11/4/81 2. 1330 11/5/81 3. 60 db 4. 0-8 mph 5. From North	70 db	80 db	49 db	50 db	47 ab
1. 1245 11/12/81 2. 1300 11/13/81 3. 60 db 4. 0-10 5. From SW	72 db	80 db	49 db	51 db	48 db
1. 1500 11/19/81 2. 1510 11/20/81 3. 60 db 4. 0-5 5. From SSE	80 db	80 db	49 db	51 db	48 db
1. 0930 11/23/81 2. 1100 11/24/81 3. 60 db 4. 0-20 5. From South	78 db	80 db	49 db	52 db	48 db

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2.4.1.2 Traffic Noise

An affixed noise monitoring station, NB01, was initiated at the guard shack in December, 1980. Traffic noise is monitored at this station for 24 hour period every sixth day. These data are presented in this section.

NOISE DATA
24 HOUR, FIXED SITE MONITORING
STATION NB01

1. START TIME (MST) 2. STOP TIME (MST) 3. CHART RANGE 4. WIND SPEED 5. WIND DIRECTION	PEAK db 1900 to 0700	PEAK db 0700 to 1900	AVERAGE db 1900 to 0700	AVERAGE db 0700 to 1900	BACKGROUND TAKEN FROM 1900-0700
1. 0930 6/3/81 2. 1000 6/4/81 3. 60 db 4. No Wind 5. -0-	74	72	56	94	52
1. 1100 6/10/81 2. 1115 6/11/81 3. 60 db 4. 2 - 5 mph (S) 5. 180°	68	72	55	97	55
1. 1200 6/17/81 2. 1215 6/18/81 3. 60 db 4. No Wind 5. -0-	65	70	54	55	52
1. 1145 6/24/81 2. 1215 6/25/81 3. 60 db 4. 3 - 5 mph (S) 5. 180°	68	70	53	57	52

NOISE DATA
24 HOUR, FIXED SITE MONITORING

NB01

1. START TIME (MST) 2. STOP TIME (MST) 3. CHART RANGE 4. WIND SPEED 5. WIND DIRECTION	PEAK db 1900 to 0700	PEAK db 0700 to 1900	AVERAGE db 1900 to 0700	AVERAGE db 0700 to 1900	BACKGROUND TAKEN FROM 1900-0700
1. 1100 7-8-81 2. 1100 7-9-81 3. 60 db 4. No Wind 5. - 0 -	65	73	55	56	55
1. 1030 7-15-81 2. 1100 7-16-81 3. 60 db 4. - 0 - 5. No Wind	68	75	54	57	55
1. 0900 7-23-81 2. 0945 7-24-81 3. 60 db 4. No Wind 5. - 0 -	65	74	55	55	55
1. 0930 7-29-81 2. 7-30-81	Instrument malfunction - turned in for repairs				

NOISE DATA
24 HOUR, FIXED SITE MONITORING
STATION NB01

1. START TIME (MST) 2. STOP TIME (MST) 3. CHART RANGE 4. WIND SPEED 5. WIND DIRECTION	PEAK db 1900 to 0700	PEAK db 0700 to 1900	AVERAGE db 1900 to 0700	AVERAGE db 0700 to 1900	BACKGROUND TAKEN FROM 1900-0700
1. 1330 8/5/81 2. 1300 8/6/81 3. 60db 4. 3 - 5 MPH 5. Southerly	63	75	55	55	55
1. 1200 8/13/81 2. 1230 8/14/81 3. 60db 4. -0- 5. No Wind	70	78	58	58	55
INSTRUMENT MALFUNCTION - GALVANOMETER WENT OUT - PARTS ORDERED 8/20/81					
8/26/81 No Data					

NOISE DATA

24 HOUR, FIXED SITE MONITORING

STATION NB01

1. START TIME (MST) 2. STOP TIME (MST) 3. CHART RANGE 4. WIND SPEED 5. WIND DIRECTION	PEAK db 1900 to 0700	PEAK db 0700 to 1900	AVERAGE db 1900 to 0700	AVERAGE db 0700 to 1900	BACKGROUND TAKEN FROM 1900-0700
1. 1230 9/30/81 2. 1220 10/1/81 3. 60db WT. A	55db	60db	48db	50db	45db
V/E shaft currently shut down - little or no activity.					

INSTRUMENT REPAIRED AND CALIBRATED 9/30/81

NOISE DATA

24 HOUR, FIXED SITE MONITORING

NB01

1. START TIME (MST) 2. STOP TIME (MST) 3. CHART RANGE 4. WIND SPEED 5. WIND DIRECTION	PEAK db 1900 to 0700	PEAK db 0700 to 1900	AVERAGE db 1900 to 0700	AVERAGE db 0700 to 1900	BACKGROUND TAKEN FROM 1900-0700
1. 0830 10/21/81 2. 0840 10/22/81 3. 60db 4. No Wind 5.	50db	80db	48db	49db	45db
1. 1430 10/28/81 2. 1400 10/29/81 3. 60db 4. 8 - 20 MPH 5. SW	70db	80db	50db	52db	48db

NOISE DATA

24 HOUR, FIXED SITE MONITORING

NB01

1. START TIME 2. STOP TIME 3. CHART RANGE 4. WIND SPEED 5. WIND DIRECTION	PEAK db 1900 to 0700	PEAK db 0700 to 1900	AVERAGE db 1900 to 0700	AVERAGE db 0700 to 1900	BACKGROUND TAKEN FROM 1900 - 0700
1. 1345 11/5/81 2. 1400 11/6/81 3. 60 db 4. 0-5 mph 5. From West	62 db	60 db	48 db	49 db	46 db
1. 1130 11/12/81 2. 1315 11/13/81 3. 60 db 4. 0-10 mph 5. From SW	56 db	70 db	48 db	50 db	46 db
1. 0915 11/23/81 2. 1045 11/24/81 3. 60 db 4. 0-20 5. From South	55 db	80 db	49 db	53 db	48 db

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